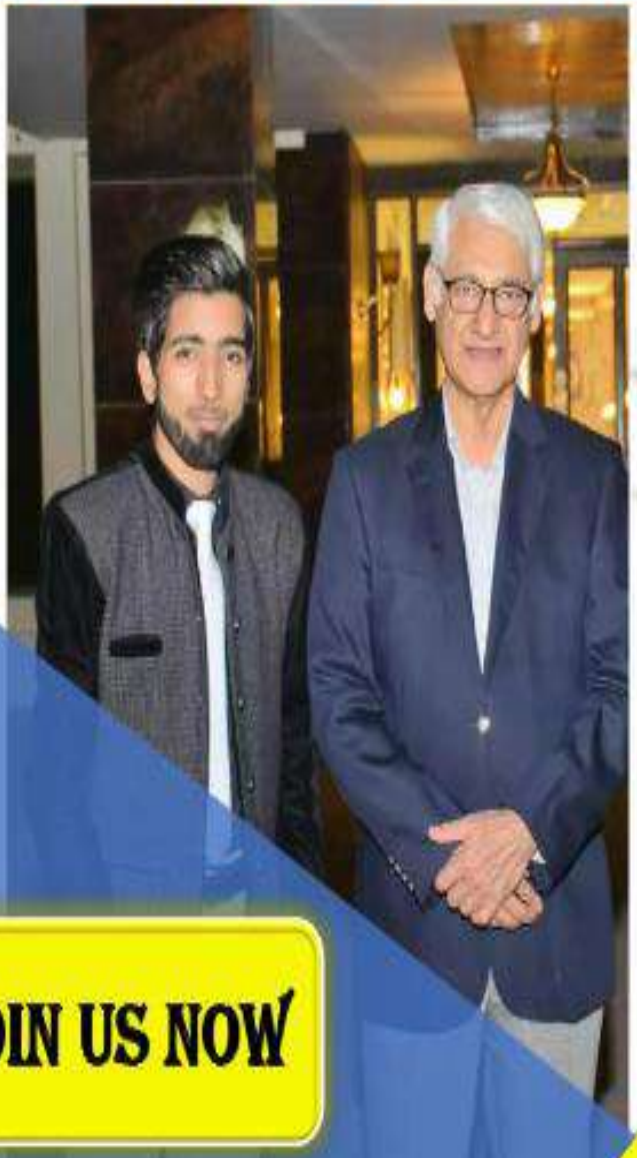
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1) VLANs.
2) IEEE 802.1
3) Multiple access.
4) Data Link Layer.
5) Chehalis multiple.
6) Hamming distance.
7) Ethernet definition.
8) Formula of bit code.
9) Three types of casts.
10) Three channelization.
11) CM and CTM Topics.
12) Ethernet technologies.
13) Hub and switch layers.
14) Types of HDLC frames.
15) 10 base 5 and 10 base T.

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16) Channelization protocols.

17) Three types of Modulation.

18) Practice efficiency formula.

19) Data word to data code table.

20) Carriere handles of intra-Lata.

21) Random access Aloha/ CSMA.

22) Sonnet layers and physical layer.

23) Table pairs words Hamming distance.

24) Random Access Nd Controlled Access.

25) Controlled access (Token passing/ polling).

26) Encoding technique name of standard Ethernet.

27) Random Access Nd Controlled Access subtypes.

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28) ARP method and random access at control access.

29) Carriere handles of intra late Channelization protocols.

30) MAC Protocols and it's 3 different types and each type have different protocols.

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Best of luck!

PAST PAPER

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Question No : 1 of 52 Marks: 1 (Budgeted Time 1 Min)

Duration of bits is decided by _____ layer of the OSI model.

Answer (Please select your correct option)

- Transport layer
- Physical layer
- Data link layer
- Application layer

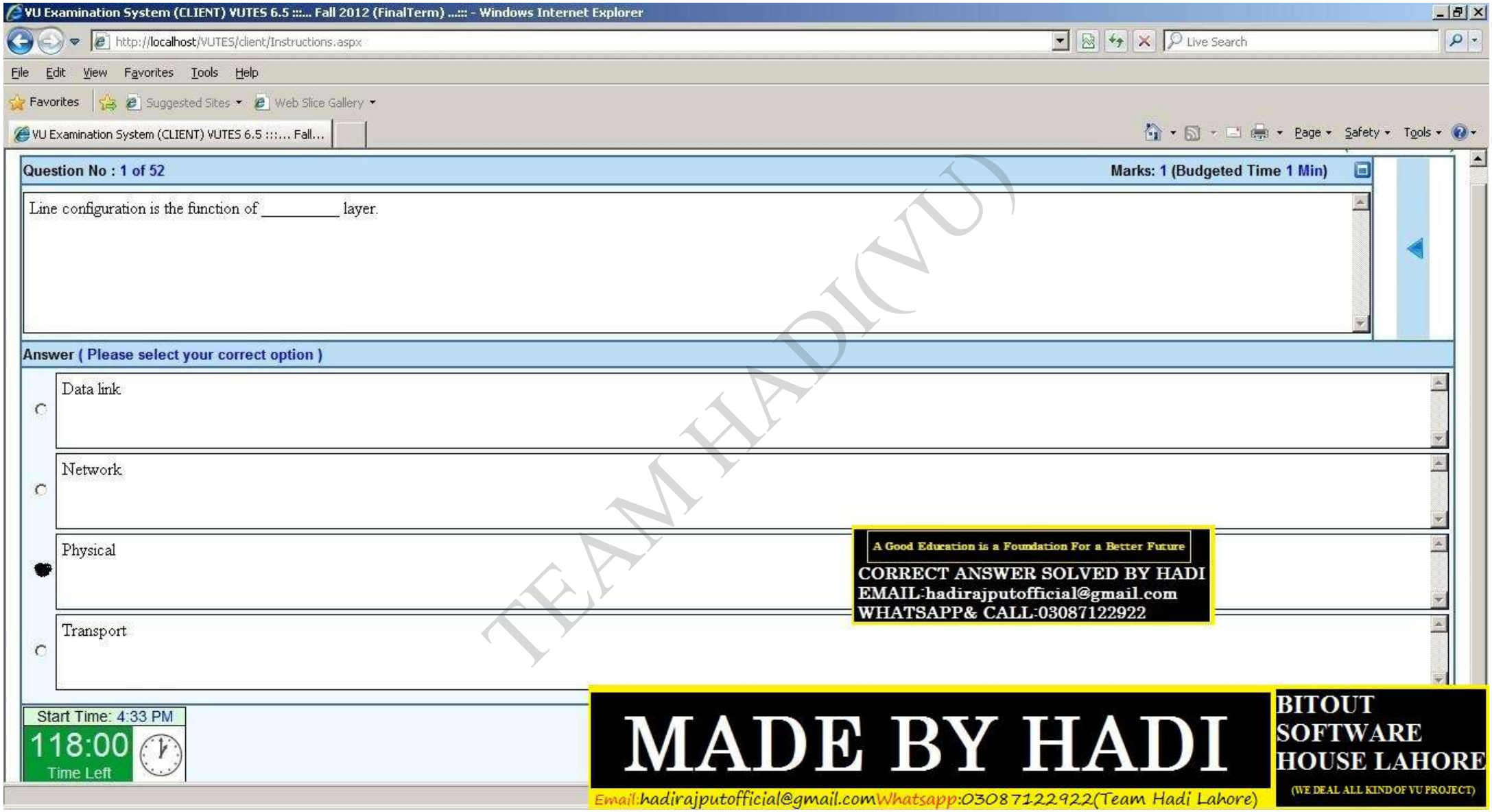
pg#45

Date Rate (Bits per second) also decided by the Physical Layer. So , Physical layer defines the Duration of a Bit. Means how long will a bit last

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Question No : 1 of 52
Marks: 1 (Budgeted Time 1 Min)
Line configuration is the function of _____ layer.
Answer (Please select your correct option)
Data link
Network
Physical
Transport
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Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Line configuration is the function of _____ layer.

Answer (Please select your correct option)

- Data link
- Network
- Physical
- Transport

pg#45

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Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____decompose a composite signal into its components.

Answer (Please select your correct option)

- Fourier analysis
- Nyquist theorem
- Carrier frequency
- Shannon capacity

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Question No : 3 of 52 Marks: 1 (Budgeted Time 1 Min)

For transmitting analog signal over long distance, putting lower frequency component over higher frequency component is called _____.

Answer (Please select your correct option)

- Modulation *pg # 70*
- Digitization
- Encoding
- De-modulation

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Question No : 3 of 52 Marks: 1 (Budgeted Time 1 Min)

Wave position relative to zero is measured by _____ .

Answer (Please select your correct option)

- Frequency
- Time Period
- Phase — Phase describes the position of the waveform relative to time zero. pg # 61
- Amplitude

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Question No : 4 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Telephony and telegraphy standards are mostly developed by _____.

Answer (Please select your correct option)

- ISO
- ITU-T
- ANSI
- IEEE

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Question No : 4 of 52 Marks: 1 (Budgeted Time 1 Min)

Telephony and telegraphy standards are mostly developed by _____.

Answer (Please select your correct option)

- ISO
- ITU-T
- ANSI
- IEEE

correct answer solved by Hadi

Consultative Committee for International Telegraphy and Telephony(CCITT)

Pg # 24

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Question No : 4 of 52 Marks: 1 (Budgeted Time 1 Min)

The information to be communicated in a data communication system is the_____.

Answer (Please select your correct option)

- Medium
- Protocol
- Message
- Transmission

Information or Data to be communicated. pg # 7

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Question No : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

Commonality in time domain plot and frequency domain plot is_____

Answer (Please select your correct option)

- Frequency
- Time
- Amplitude
- Phase

Time Domain plots show changes in signal amplitude w.r.t Time. and To show the relationship between amplitude and Frequency, we can use what is called a Frequency Domain Plot. pg # 63

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Question No : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

In a network, _____ is the conduit between network nodes over which data moves.

Answer (Please select your correct option)

- Link
- Path
- Circuit
- Conductor

Circuit: the conduit over which data travels. *pg # 12*

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Question No : 6 of 52 Marks: 1 (Budgeted Time 1 Min)

If transmission speed of a signal is 128(bps) then it means _____.

Answer (Please select your correct option)

- Bit Rate: 128bits per second
- Bit rate: 0.0078bits per second
- Bit Rate: 64 Bits per second
- Bit Rate: 1/128 bits per second

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Question No : 6 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Trailer is only added at _____layer of OSI model.

Answer (Please select your correct option)

- Data link

Data Link layer adds a HEADER to Frame pg # 46

- Physical
- Network
- Application

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Question No : 7 of 52 Marks: 1 (Budgeted Time 1 Min)

Providing access to network resources is the function of _____layer.

Answer (Please select your correct option)

- Presentation
- Application
- Session
- Physical

pg # 53

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Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

In asynchronous transmission, the gap time between bytes is _____.

Answer (Please select your correct option)

- Zero
- Fixed
- Variable
- Infinity

Asynchronous means flexible or Not fixed pg # 156

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Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ topology operates data in both clock wise and anti-clock wise direction.

Answer (Please select your correct option)

- Mesh
- Ring
- Tree
- Star

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Question No : 10 of 52 Marks: 1 (Budgeted Time 1 Min)

The _____ generates the data and passes it along with any control information to a _____.

Answer (Please select your correct option)

- DTE, DCE
- DCE, DTE
- DCE, Nnode
- DTE, Application

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Question No : 10 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ is the process of assigning integral values from of a range of discrete values.

Answer (Please select your correct option)

- Binary Encoding
- PAM
- Quantization
- Modulation

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Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

According to _____ data rate is directly proportional to signal-to-noise ratio.

Answer (Please select your correct option)

- CRC
- Hamming Code
- Shannon's Formula

Shannon's formula Data rate ? Signal-to-noise ratio pg# 115

- Nyquist Theorem

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Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The visible light is currently used for communications in _____ cable.

Answer (Please select your correct option)

- UTP
- STP
- Coaxial
- Fiber Optic

Visible light, the third type of Electromagnetic energy currently used for communications is harnessed using fiber optic cable *pg#119*

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Question No : 12 of 52 Marks: 1 (Budgeted Time 1 Min)

In Cable Modems, the BW is normally divided into _____ bands using FDM.

Answer (Please select your correct option)

- 6MHz — *This BW is normally divided into 6MHz bands using FDM pg # 118*
- 60MHz
- 8MHz
- 80MHz

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Question No : 12 of 52 Marks: 1 (Budgeted Time 1 Min)

The range of radio communication is _____ .

Answer (Please select your correct option)

- 30 KHz to 30 GHz
- 3 KHz to 300 GHz
- 300 KHz to 300 GHz
- 3 MHz to 300 GHz

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Question No : 13 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ is popular for supporting higher bandwidth and higher data rate.

Answer (Please select your correct option)

- Coaxial Cable
- Optical Fiber
- STP
- UTP

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Question No : 13 of 52 Marks: 1 (Budgeted Time 1 Min)

The speed of light is _____ in vacuume.

Answer (Please select your correct option)

- 3 Km/s
- 300 Km/s
- 300,000 Km/s
- 300,00 Km/s

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Question No : 14 of 52 Marks: 1 (Budgeted Time 1 Min)

The section of EM spectrum defined as radio communication is divided into _____ ranges called Bands.

Answer (Please select your correct option)

- 5
- 6
- 8
- 10

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Question No : 14 of 52 Marks: 1 (Budgeted Time 1 Min)

Type of Optical Fiber cable is defined by the ratio of the _____ of its core to the diameter of its cladding.

Answer (Please select your correct option)

- Diameter
- Radius
- Length
- Density

Optical Fibers are defined by the ratio of the diameter of their Core to the diameter of their Cladding *pg # 130*

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Question No : 15 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Radio wave transmission utilizes _____ different types of propagation.

Answer (Please select your correct option)

- Two
- Three
- Four
- Five

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Question No : 15 of 52 Marks: 1 (Budgeted Time 1 Min)

A parabolic dish antenna is a(n) _____ antenna.

Answer (Please select your correct option)

- Omnidirectional
- Bidirectional
- Unidirectional
- Horn

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Question No : 16 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ radio waves are radiated upward into the ionosphere where they are reflected back to earth.

Answer (Please select your correct option)

- Low frequency
- Higher frequency
- Very low frequency
- Middle frequency

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Question No : 17 of 52 Marks: 1 (Budgeted Time 1 Min)

The VLF and LF bands use _____ propagation for communications.

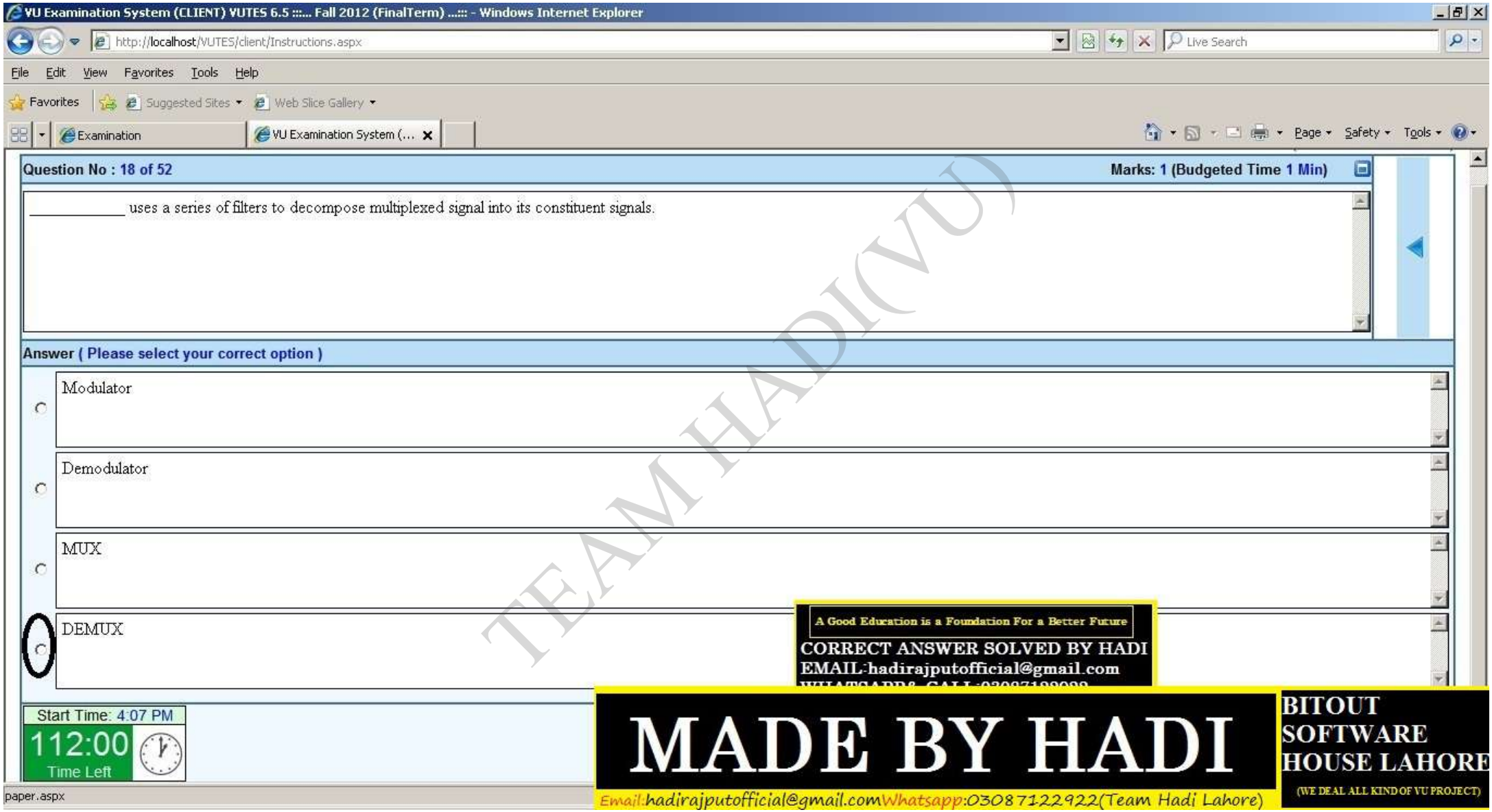
Answer (Please select your correct option)

- Surface
- Sky
- Line of sight
- Space

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Question No : 18 of 52
Marks: 1 (Budgeted Time 1 Min)
_____ uses a series of filters to decompose multiplexed signal into its constituent signals.
Answer (Please select your correct option)
Modulator
Demodulator
MUX
DEMUX
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Question No : 18 of 52 **Marks: 1 (Budgeted Time 1 Min)**

There are _____ basic categories of multiplexing.

Answer (Please select your correct option)

2

3 *FDM, TDM WDM PG # 148*

4

5

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Question No : 19 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is a technique which specifically works on light beams.

Answer (Please select your correct option)

- FDM
- WDM
- TDM
- CDM

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Question No : 19 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A prism deflects the light depending upon the angle of _____ and the frequency.

Answer (Please select your correct option)

- Deviation
- Incidence
- Refraction
- Reflection

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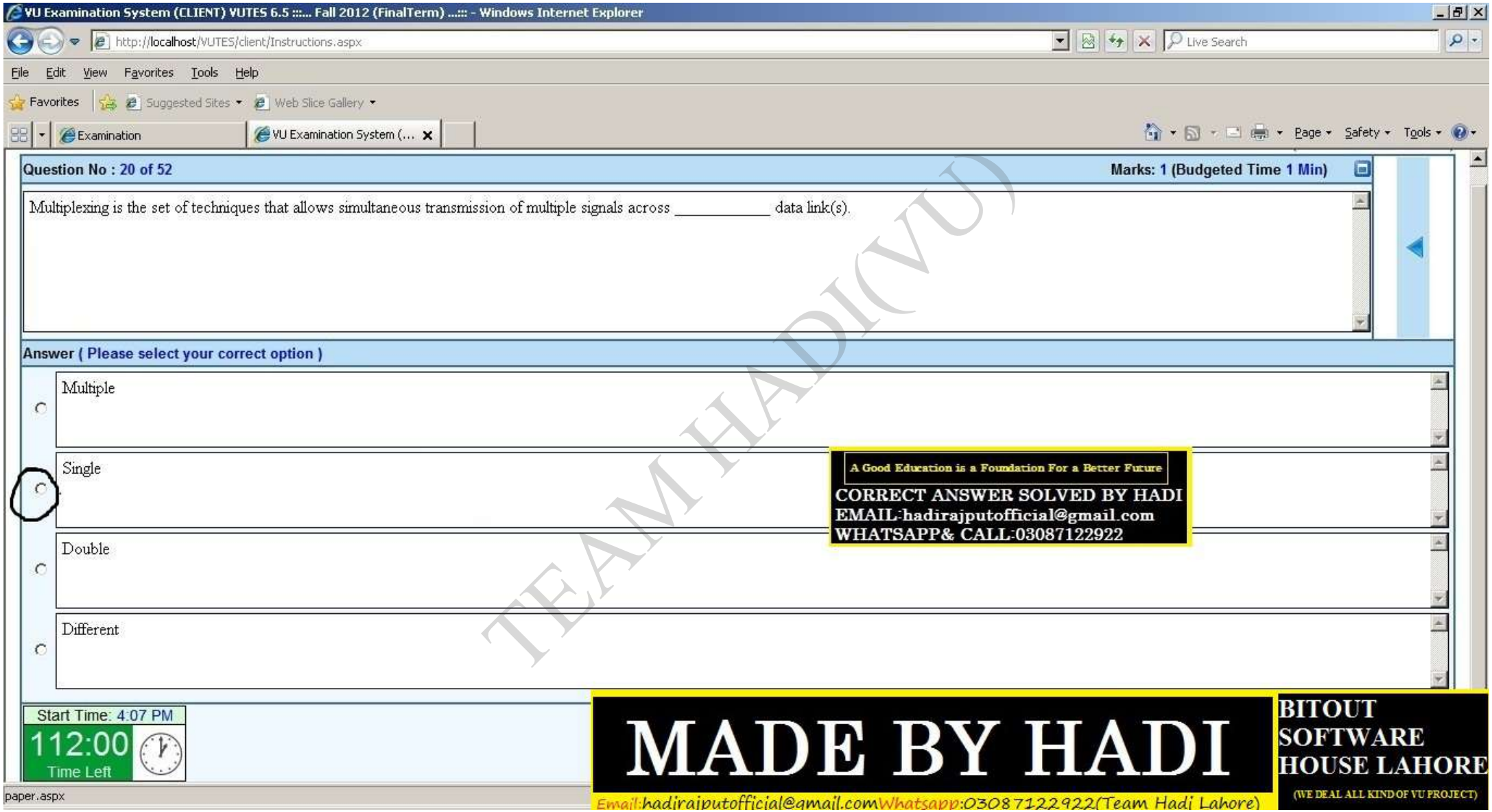
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Question No : 20 of 52
Marks: 1 (Budgeted Time 1 Min)
Multiplexing is the set of techniques that allows simultaneous transmission of multiple signals across _____ data link(s).
Answer (Please select your correct option)
Multiple
Single
Double
Different
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Question No : 20 of 52 **Marks: 1 (Budgeted Time 1 Min)**

By using _____, data of one high speed line can be broken into multiple low speed streams.

Answer (Please select your correct option)

- Multiplexing
- Inverse Multiplexing
- TDM
- Asynchronous TDM

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Question No : 21 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Using _____ technique, MUX adds extra bits to data.

Answer (Please select your correct option)

- Bit Stuffing

In bit stuffing, MUX adds extra bits to a device pg#156

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- Decompression
- Switching
- Exchanging

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Question No : 21 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In primary-secondary communication process, session is always initiated by _____.

Answer (Please select your correct option)

- Secondary device
- Intermediate device
- Any receiving device
- Primary device

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Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ coordinates the amount of data that can be sent before receiving acknowledgment.

Answer (Please select your correct option)

- Error control
- Flow control
- Link control
- Line discipline

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Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Addressing is not needed in _____ configuration in the perspective of line discipline.

Answer (Please select your correct option)

- Routers
- Point to Point
- Multipoint
- Multipoint and Point to Point

o For point-to-point configuration, there is no need for addressing pg # 190

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Question No : 23 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In line discipline, the initiator first transmits a frame called an _____ .

Answer (Please select your correct option)

- Enquiry — *ENQ (Enquiry)* — *pg # 189*
- Acknowledgment
- NAK
- EOT

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Question No : 23 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Primary device uses _____ to receive transmission from the secondary devices.

Answer (Please select your correct option)

- ACK
- ENQ
- POLL Pg # 191
- PSK

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Question No : 24 of 52 **Marks: 1 (Budgeted Time 1 Min)**

If sender sent some frames from 0 to 10 and received the 'ACK 5' then according to the method Go-Back-N ARQ, the receiver has received _____ frame(s).

Answer (Please select your correct option)

- 0
- 0 to 5
- 0 to 4
- 0 to 10

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Question No : 25 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Error control in the data link layer is based on _____.

Answer (Please select your correct option)

- Automatic repeat acknowledgment
- Automatic send acknowledgment
- Automatic deny request
- Automatic repeat request

pg # 196

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Question No : 25 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Data link protocols can be divided into _____ sub-groups.

Answer (Please select your correct option)

- Two

pg # 202

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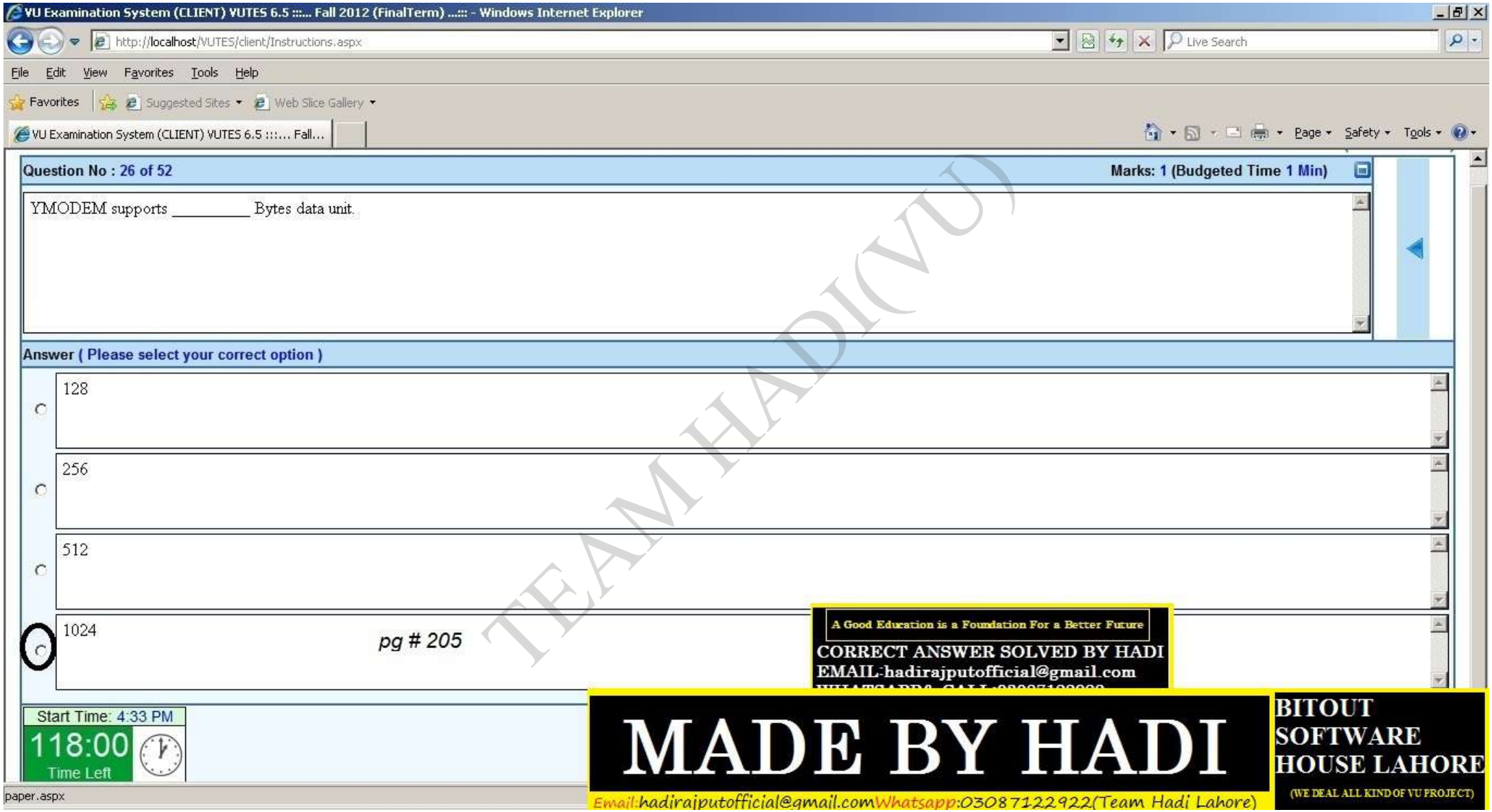
- Three
- Four
- Five

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Question No : 26 of 52
Marks: 1 (Budgeted Time 1 Min)
YMODEM supports _____ Bytes data unit.
Answer (Please select your correct option)
128
256
512
1024
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Question No : 27 of 52 **Marks: 1 (Budgeted Time 1 Min)**

BLAST stands for _____ .

Answer (Please select your correct option)

- Blocked asynchronous transmission

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- Blocked synchronous transmission
- Barrel asynchronous transmission
- Below asynchronous transmission

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Question No : 28 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ field defines the beginning and ending of an HDLC frame.

Answer (Please select your correct option)

- Flag *pg # 214*
- Address
- Control
- FCS

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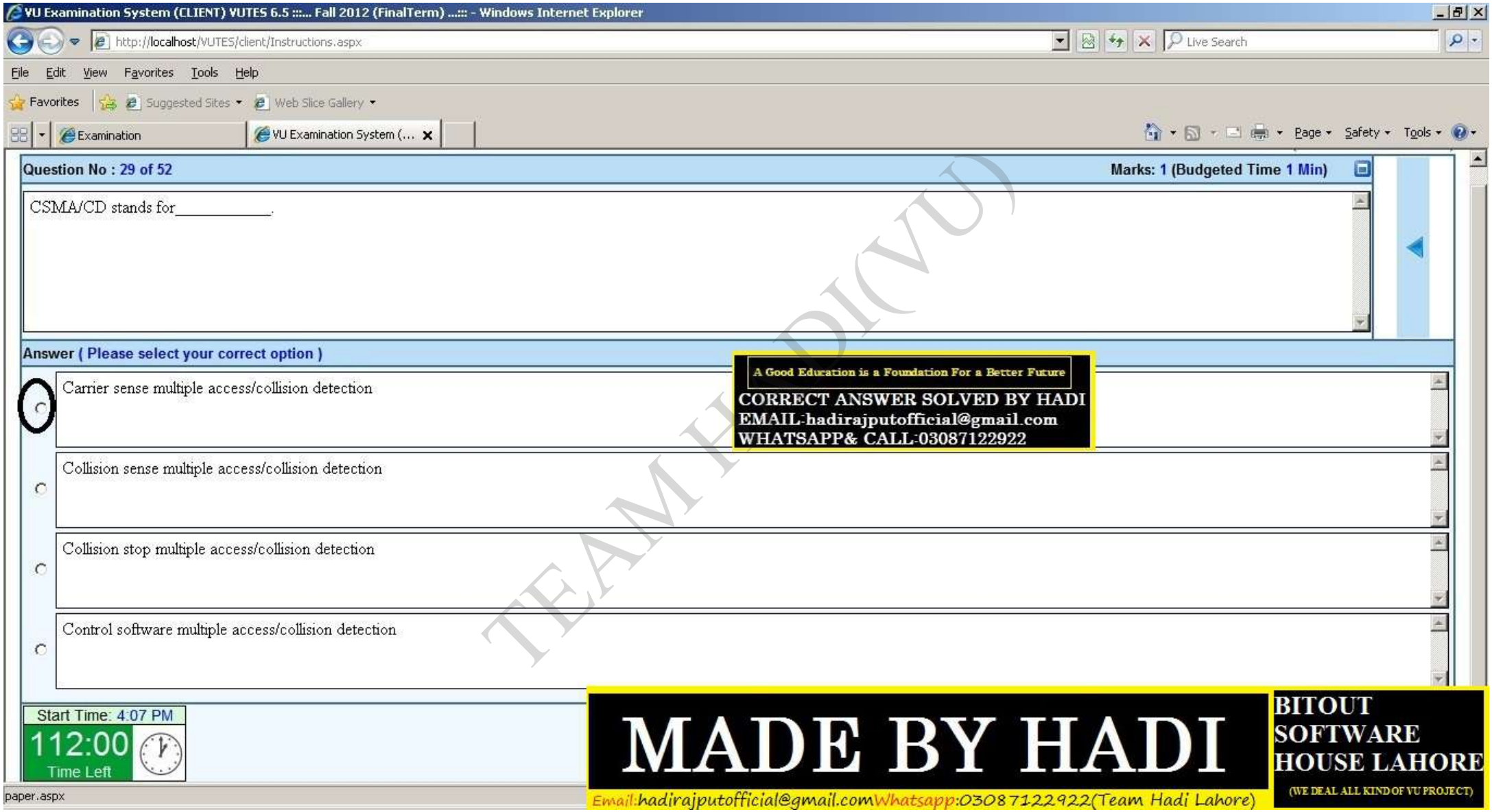
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Question No : 29 of 52
Marks: 1 (Budgeted Time 1 Min)
CSMA/CD stands for_____.
Answer (Please select your correct option)
Carrier sense multiple access/collision detection
Collision sense multiple access/collision detection
Collision stop multiple access/collision detection
Control software multiple access/collision detection
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Question No : 29 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group.

Answer (Please select your correct option)

- First
- Second
- Third
- Last

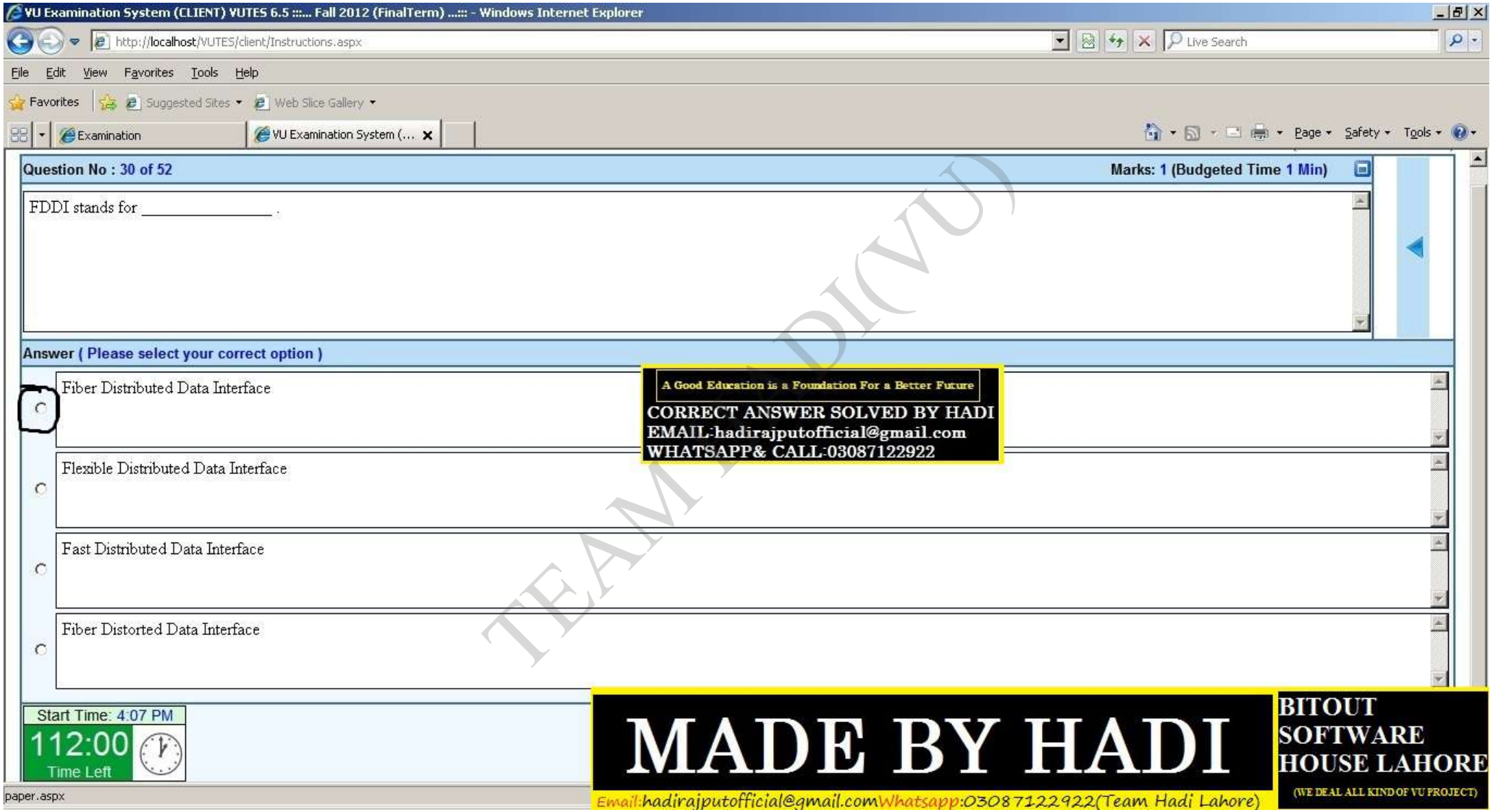
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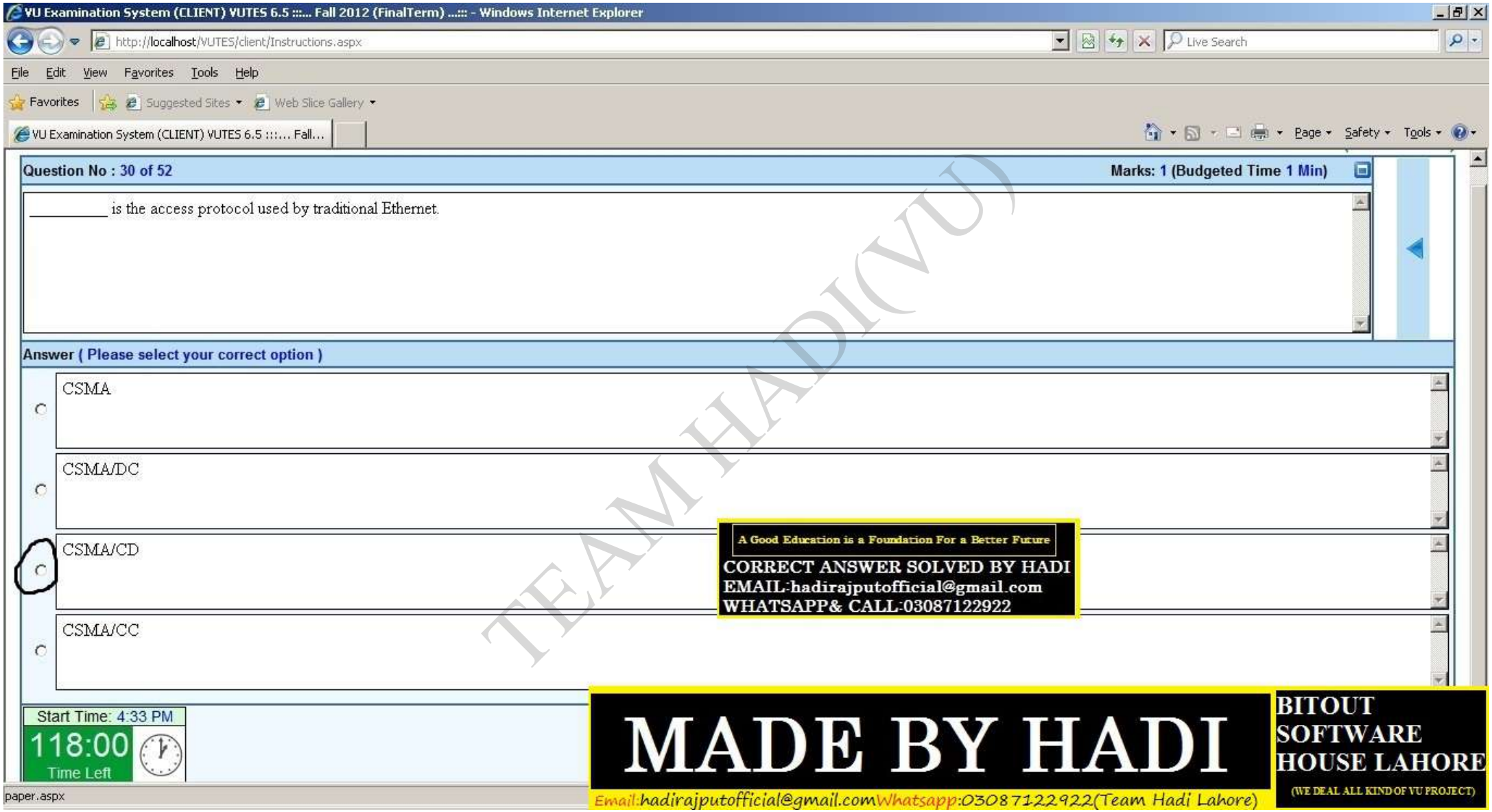
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Question No : 30 of 52
Marks: 1 (Budgeted Time 1 Min)
FDDI stands for _____ .
Answer (Please select your correct option)
Fiber Distributed Data Interface
Flexible Distributed Data Interface
Fast Distributed Data Interface
Fiber Distorted Data Interface
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Question No : 30 of 52
Marks: 1 (Budgeted Time 1 Min)
_____ is the access protocol used by traditional Ethernet.
Answer (Please select your correct option)
CSMA
CSMA/DC
CSMA/CD
CSMA/CC
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Question No : 31 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group.

Answer (Please select your correct option)

- First — *The first bit of the DSAP indicates whether the frame is intended for an individual or a group* *pg # 202*
- Second
- Third
- Last

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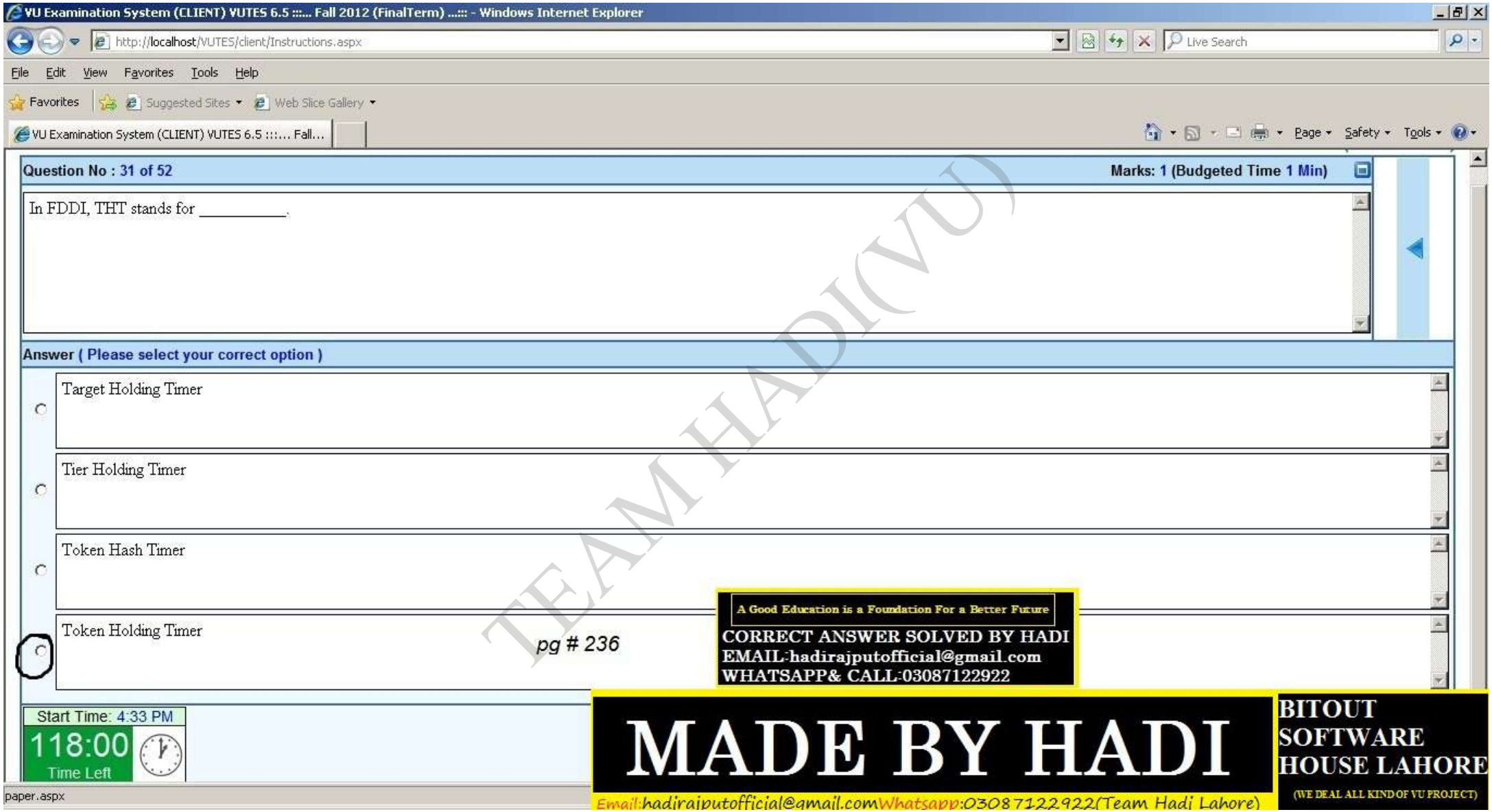
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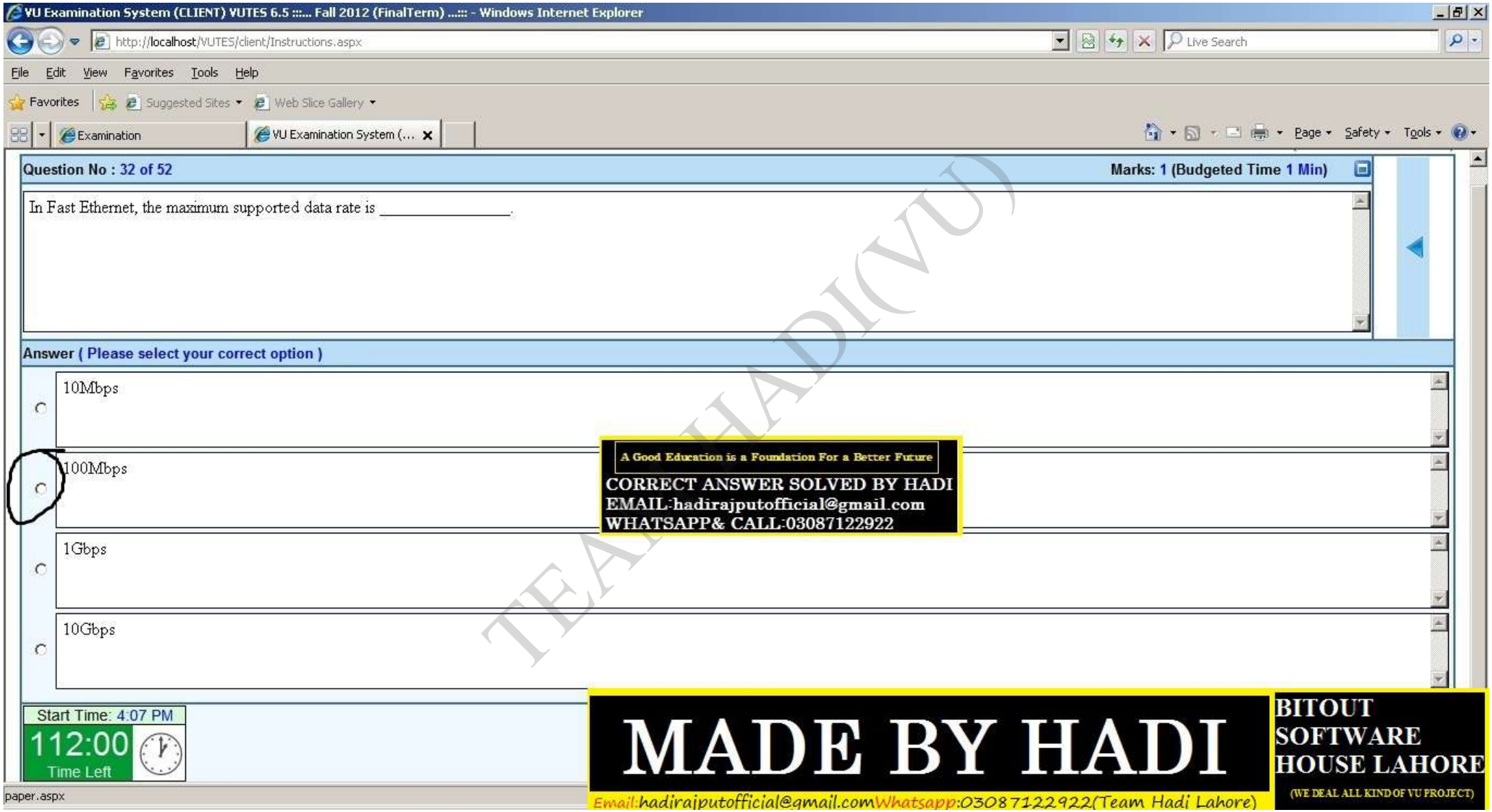
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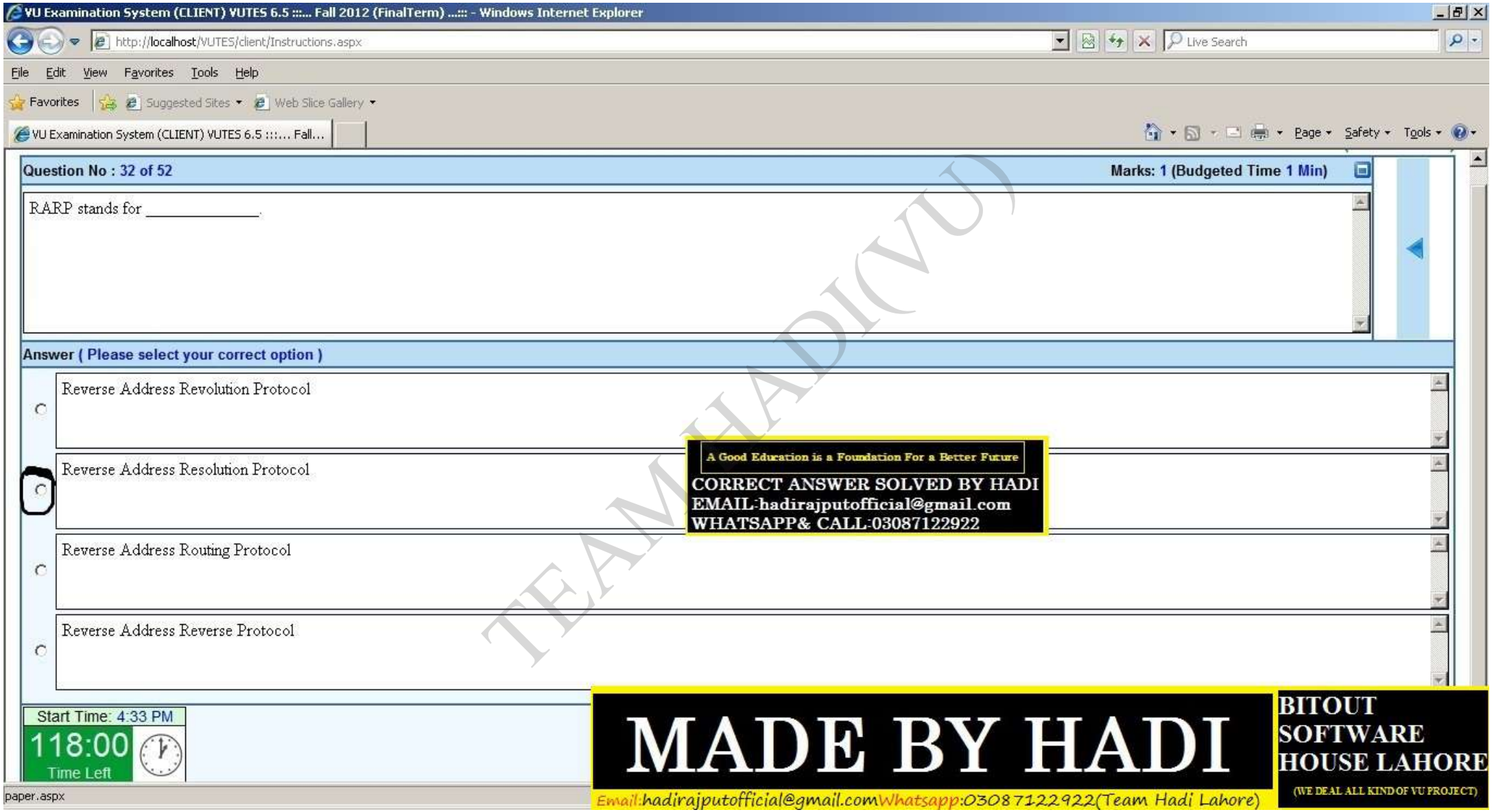
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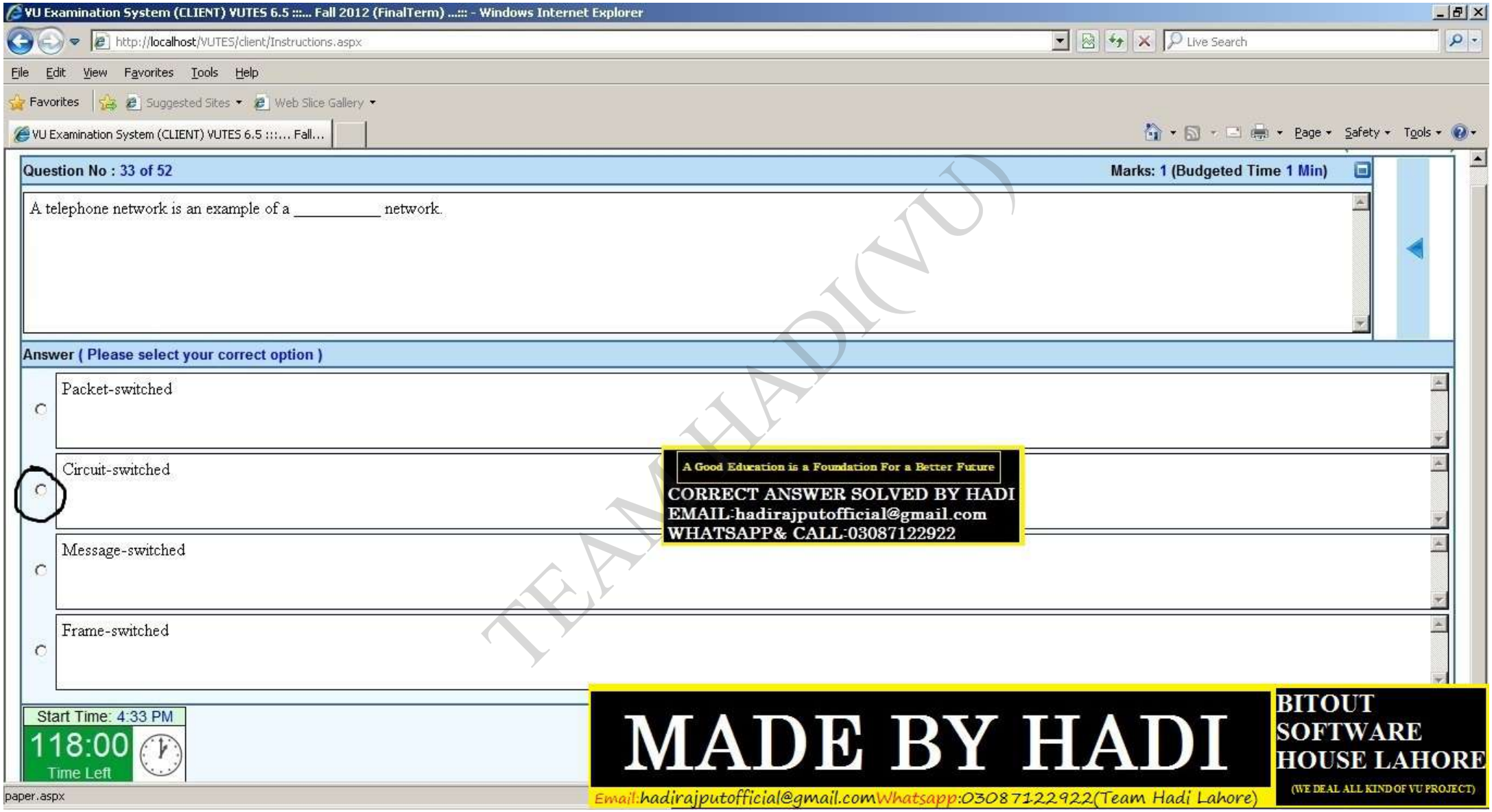
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Question No : 31 of 52
Marks: 1 (Budgeted Time 1 Min)
In FDDI, THT stands for _____.
Answer (Please select your correct option)
Target Holding Timer
Tier Holding Timer
Token Hash Timer
Token Holding Timer
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Question No : 32 of 52
Marks: 1 (Budgeted Time 1 Min)
In Fast Ethernet, the maximum supported data rate is _____.
Answer (Please select your correct option)
10Mbps
100Mbps
1Gbps
10Gbps
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Question No : 32 of 52
Marks: 1 (Budgeted Time 1 Min)
RARP stands for _____.
Answer (Please select your correct option)
Reverse Address Revolution Protocol
Reverse Address Resolution Protocol
Reverse Address Routing Protocol
Reverse Address Reverse Protocol
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Question No : 33 of 52
Marks: 1 (Budgeted Time 1 Min)
A telephone network is an example of a _____ network.
Answer (Please select your correct option)
Packet-switched
Circuit-switched
Message-switched
Frame-switched
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Question No : 34 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Bridges can divide a large _____ into smaller segments.

Answer (Please select your correct option)

- Network

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- Packet
- Frame
- Address

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Question No : 34 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The data rate of a T-1 line is _____.

Answer (Please select your correct option)

- 2.544 Mbps
- 1.544 Mbps
- 1.544 Kbps
- 1.544 Gbps

pg # 164

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Question No : 35 of 52 **Marks: 1 (Budgeted Time 1 Min)**

FTTC stands for _____.

Answer (Please select your correct option)

- Flexible to the curb
- Fiber to the curb *pg # 164*
- Fiber to the cable
- Fiber to the center

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Question No : 36 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In the process of CRC, _____ has not any importance and is not attached with data at sender/receiver side.

Answer (Please select your correct option)

- Quotient *not sure*
- Divisor
- Dividend
- Remainder

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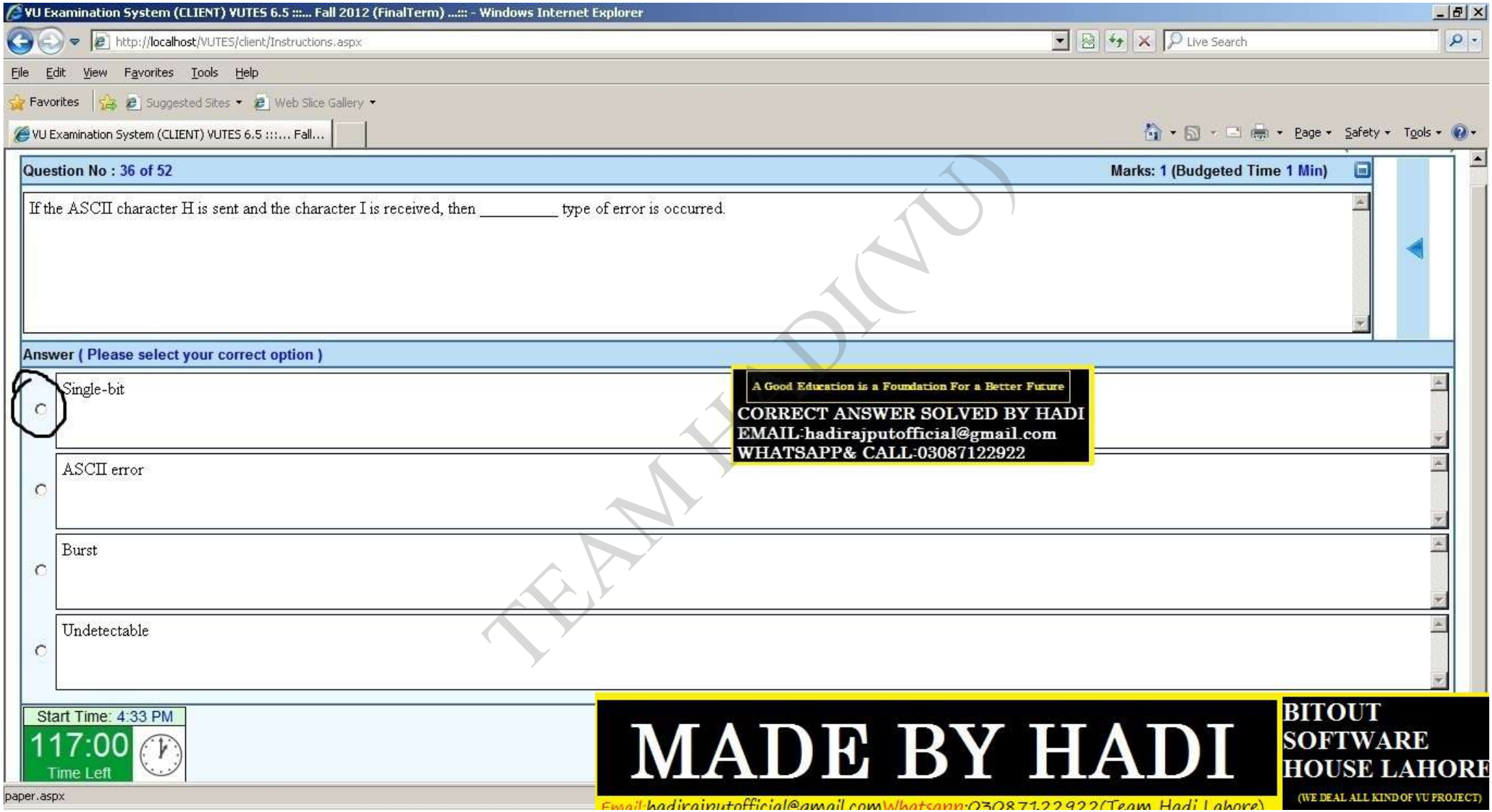
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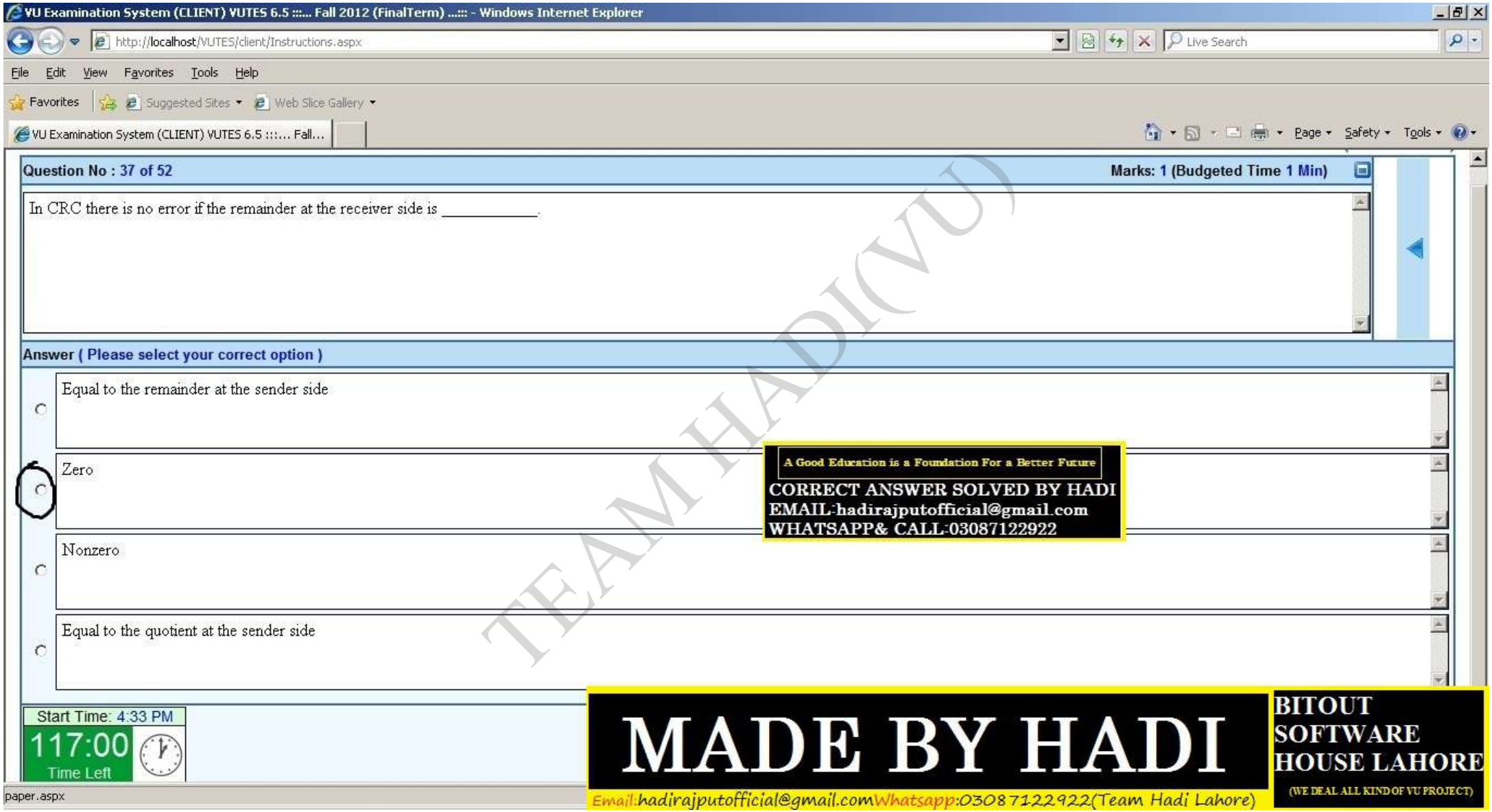
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Question No : 36 of 52
Marks: 1 (Budgeted Time 1 Min)
If the ASCII character H is sent and the character I is received, then _____ type of error is occurred.
Answer (Please select your correct option)
Single-bit
ASCII error
Burst
Undetectable
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Question No : 37 of 52
Marks: 1 (Budgeted Time 1 Min)
In CRC there is no error if the remainder at the receiver side is _____.
Answer (Please select your correct option)
Equal to the remainder at the sender side
Zero
Nonzero
Equal to the quotient at the sender side
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Question No : 38 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

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Question No : 39 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In the process of CRC, the quotient at the sender is _____.

Answer (Please select your correct option)

- The dividend at the receiver
- The divisor at the receiver
- Ignored
- The remainder at receiver

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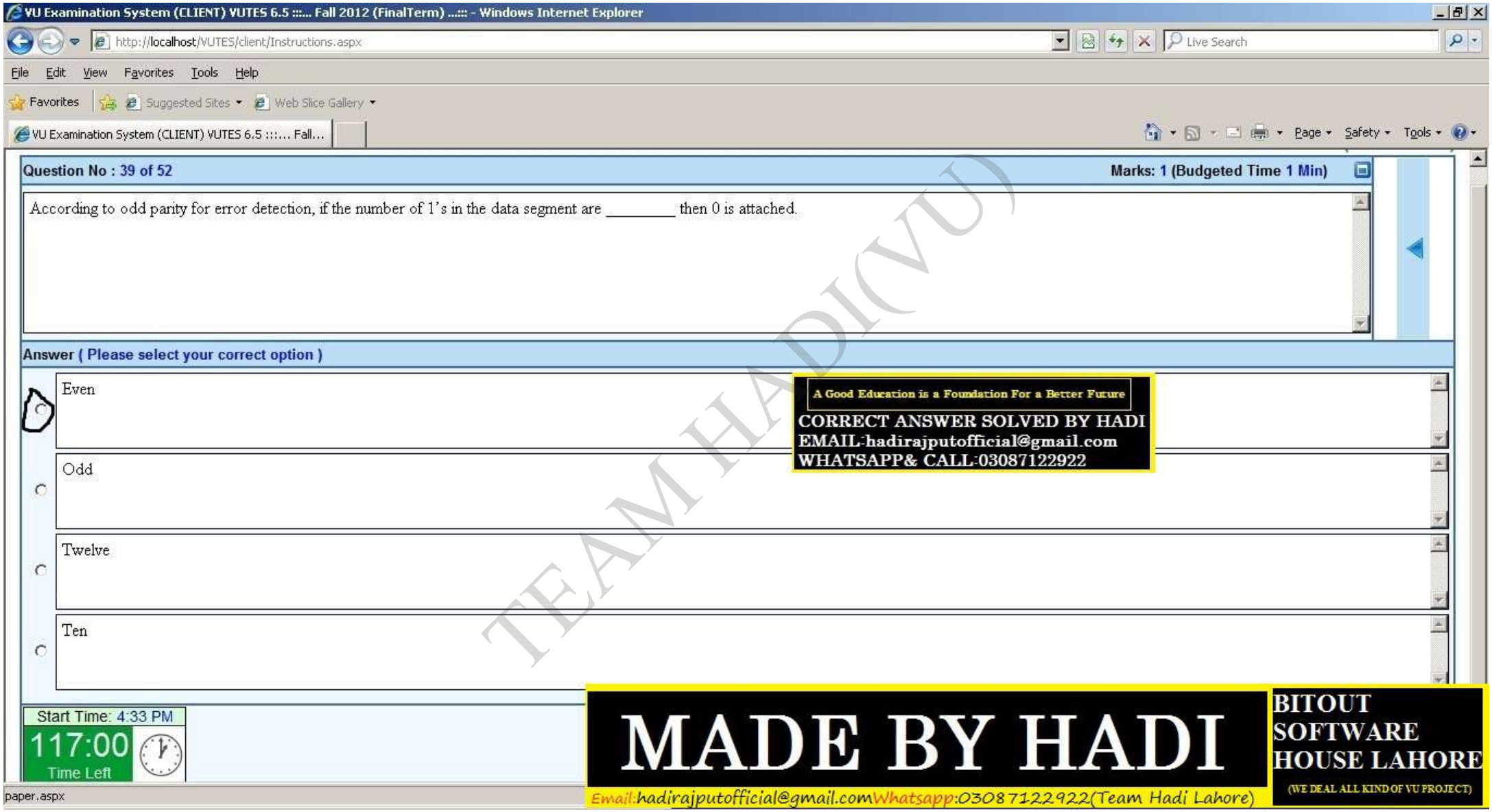
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Question No : 39 of 52
Marks: 1 (Budgeted Time 1 Min)
According to odd parity for error detection, if the number of 1's in the data segment are _____ then 0 is attached.
Answer (Please select your correct option)
Even
Odd
Twelve
Ten
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Question No : 40 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

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Question No : 40 of 52 **Marks: 1 (Budgeted Time 1 Min)**

IEEE divided the Baseband category into _____ standards.

Answer (Please select your correct option)

- 2
- 3
- 4
- 5

IEEE divides the base band category into 5 standards:
–10 Base 5 , 10 Base 2, 10 Base-T, 1 Base 5, 100 Base-T

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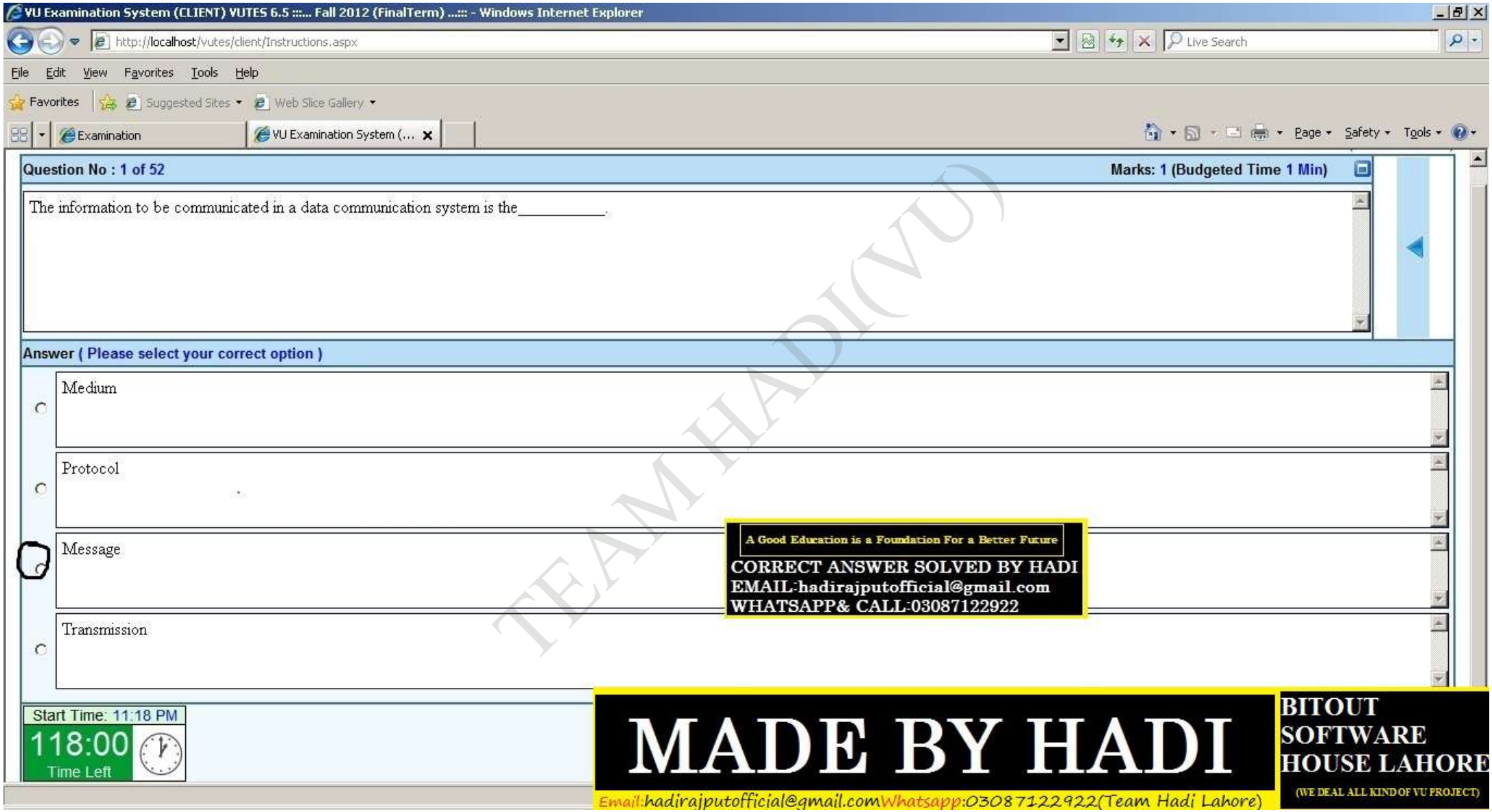
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Question No : 1 of 52
Marks: 1 (Budgeted Time 1 Min)
The information to be communicated in a data communication system is the_____.
Answer (Please select your correct option)
Medium
Protocol
Message
Transmission
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Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A _____ provides a model for products manufactured by different manufacturers to operate together.

Answer (Please select your correct option)

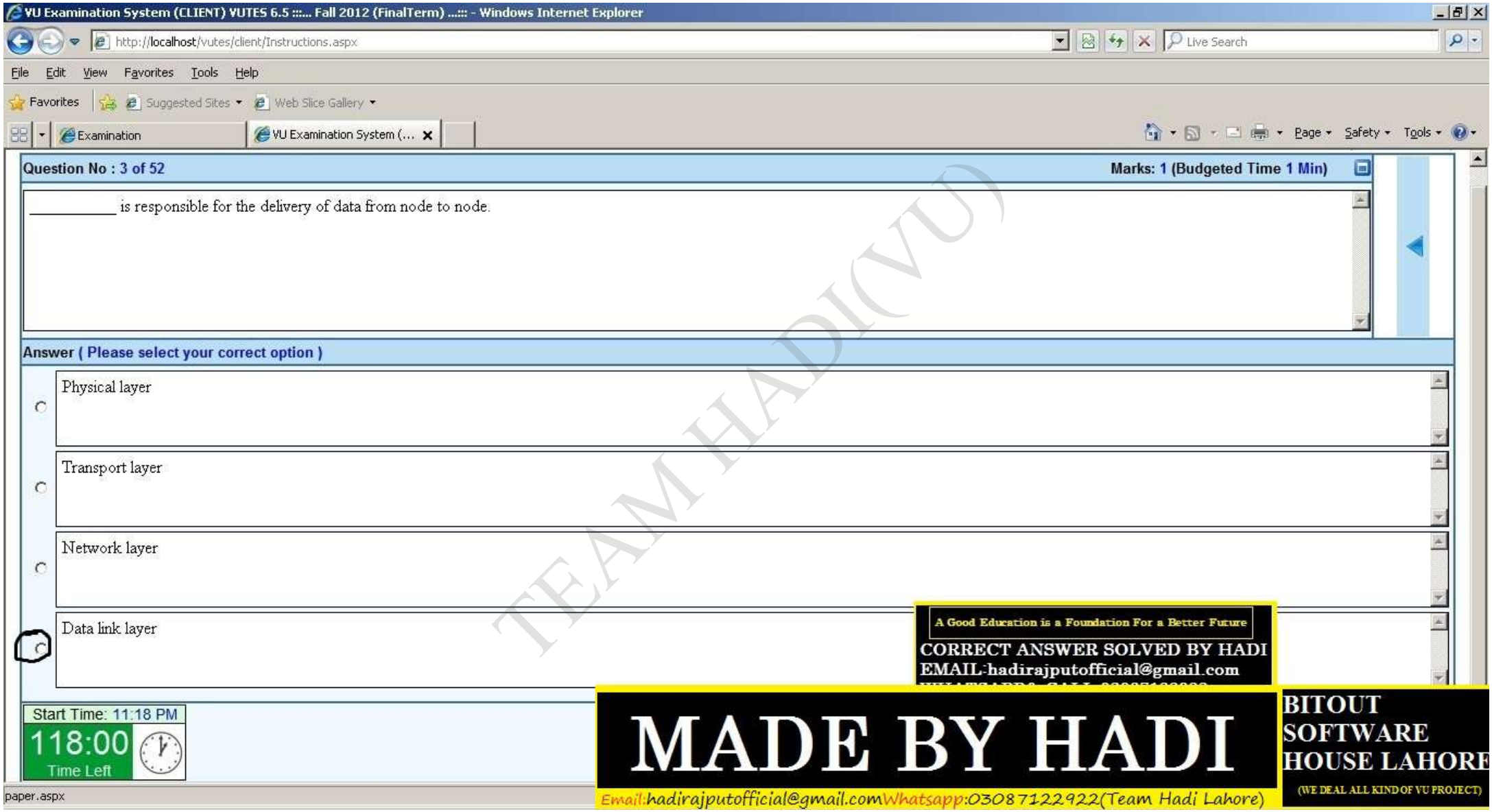
- Protocol
- Standard
- Topology
- System

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Question No : 3 of 52
Marks: 1 (Budgeted Time 1 Min)
_____ is responsible for the delivery of data from node to node.
Answer (Please select your correct option)
Physical layer
Transport layer
Network layer
Data link layer
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Question No : 4 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ can be measured by measuring the vertical distance from a given point on the wave form to the horizontal axis.

Answer (Please select your correct option)

- Phase
- Amplitude
- Frequency
- Time period

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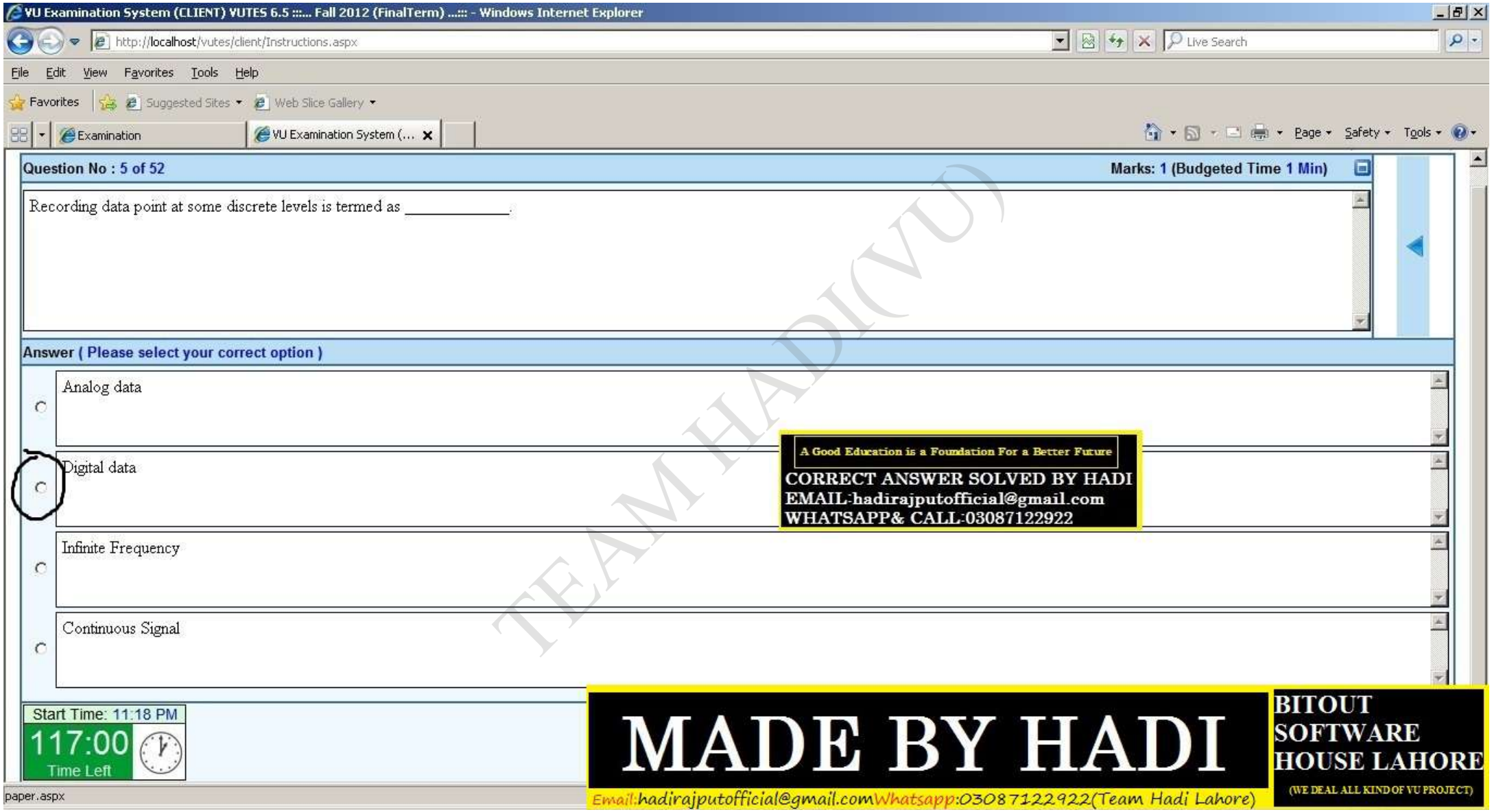
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Question No : 5 of 52
Marks: 1 (Budgeted Time 1 Min)
Recording data point at some discrete levels is termed as _____.
Answer (Please select your correct option)
Analog data
Digital data
Infinite Frequency
Continuous Signal
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Question No : 6 of 52 **Marks: 1 (Budgeted Time 1 Min)**

If a signal completes 10 cycles in one second, then time period will be _____.

Answer (Please select your correct option)

- 0.2 seconds
- 0.1 seconds
- 10 seconds
- 5 seconds

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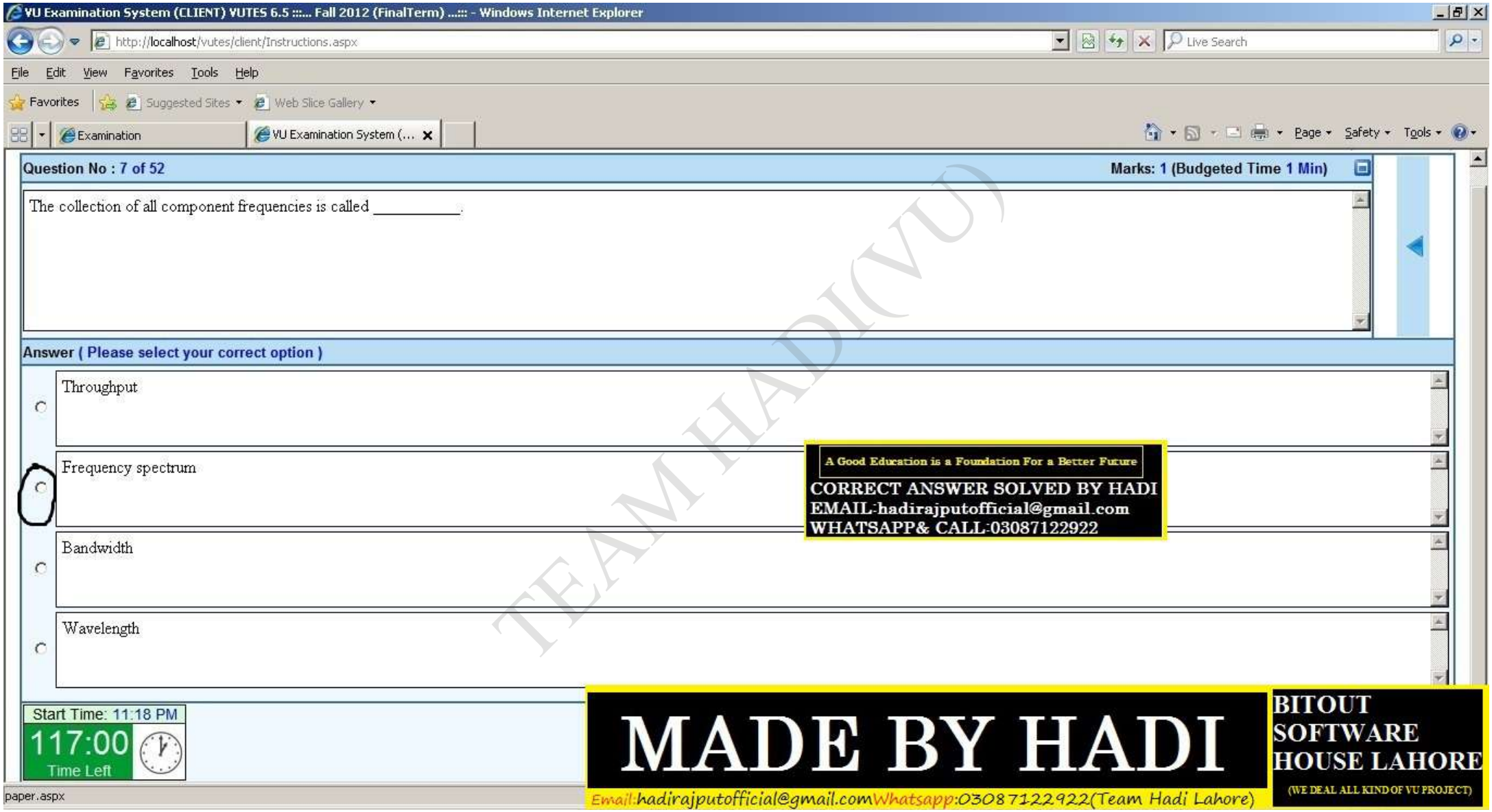
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Question No : 7 of 52
Marks: 1 (Budgeted Time 1 Min)
The collection of all component frequencies is called _____.
Answer (Please select your correct option)
Throughput
Frequency spectrum
Bandwidth
Wavelength
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Question No : 8 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Although B8ZS and HDB3 provide almost same functionality, yet both the techniques behave differently _____.

Answer (Please select your correct option)

- When 8 or more 1's come
- When 8 or more consecutive 0's come
- When "0" come at start
- When "1" comes at start

not sure

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Question No : 9 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The sampling rate must be at least _____ the highest frequency.

Answer (Please select your correct option)

- Twice
- Thrice
- Four time
- Half

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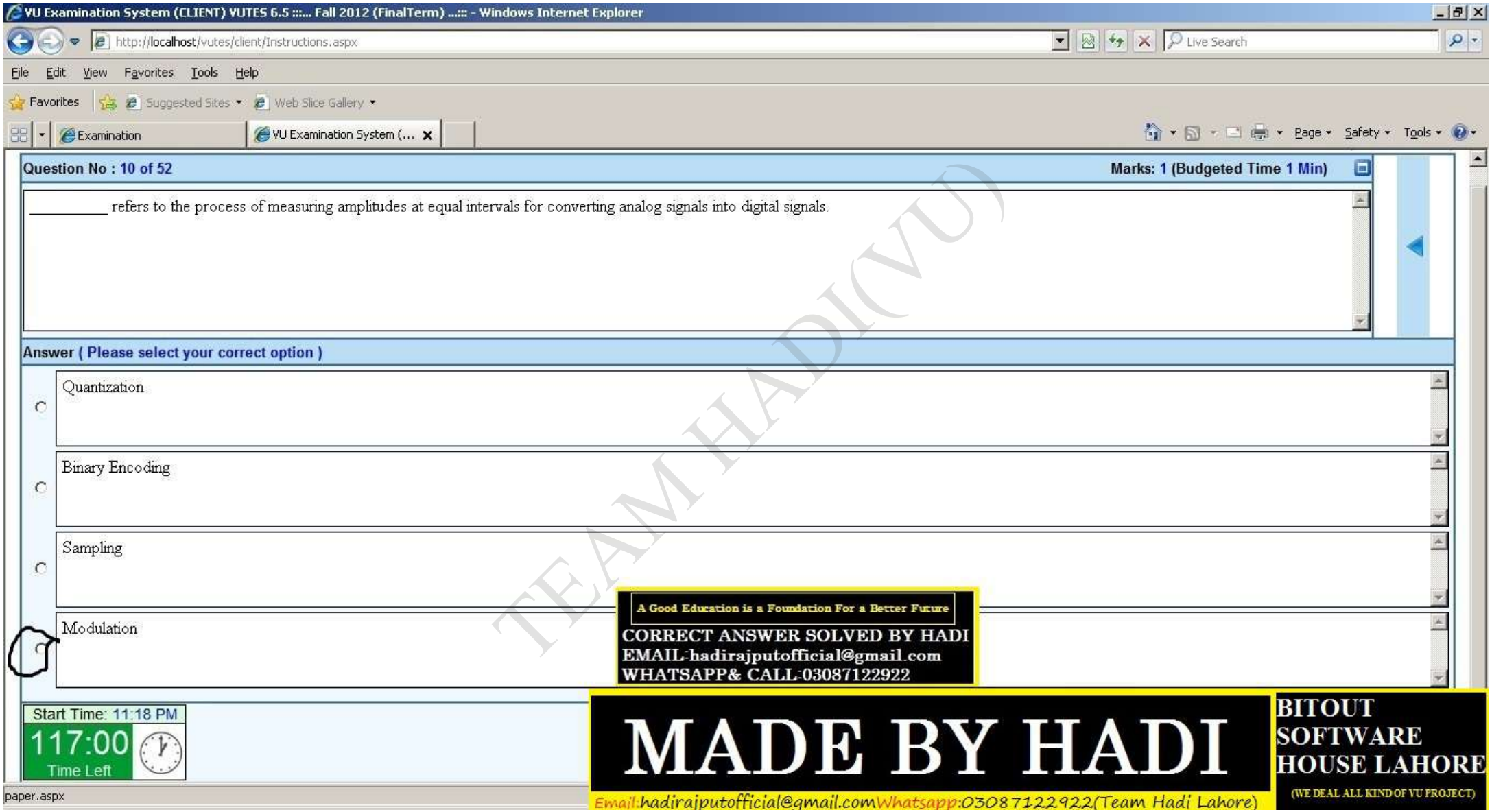
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Question No : 10 of 52
Marks: 1 (Budgeted Time 1 Min)
_____ refers to the process of measuring amplitudes at equal intervals for converting analog signals into digital signals.
Answer (Please select your correct option)
Quantization
Binary Encoding
Sampling
Modulation
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Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

According to _____ data rate is directly proportional to signal-to-noise ratio.

Answer (Please select your correct option)

- CRC
- Hamming Code
- Shannon's Formula
- Nyquist Theorem

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Question No : 12 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In Cable Modems, the BW is normally divided into _____ bands using FDM.

Answer (Please select your correct option)

- 6MHz
- 60MHz
- 8MHz
- 80MHz

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Question No : 13 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The visible light is currently used for communications in _____ cable.

Answer (Please select your correct option)

- UTP
- STP
- Coaxial
- Fiber Optic

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Question No : 14 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The range of radio communication is _____ .

Answer (Please select your correct option)

- 30 KHz to 30 GHz
- 3 KHz to 300 GHz
- 300 KHz to 300 GHz
- 3 MHz to 300 GHz

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Question No : 15 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Type of Optical Fiber cable is defined by the ratio of the _____ of its core to the diameter of its cladding.

Answer (Please select your correct option)

- Diameter
- Radius
- Length
- Density

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Question No : 16 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The section of EM spectrum defined as radio communication is divided into _____ ranges called Bands.

Answer (Please select your correct option)

- 5
- 6
- 8
- 10

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Question No : 17 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Ultra high-frequency waves always use_____ propagation.

Answer (Please select your correct option)

- Surface
- Sky
- Line of Sight
- Space

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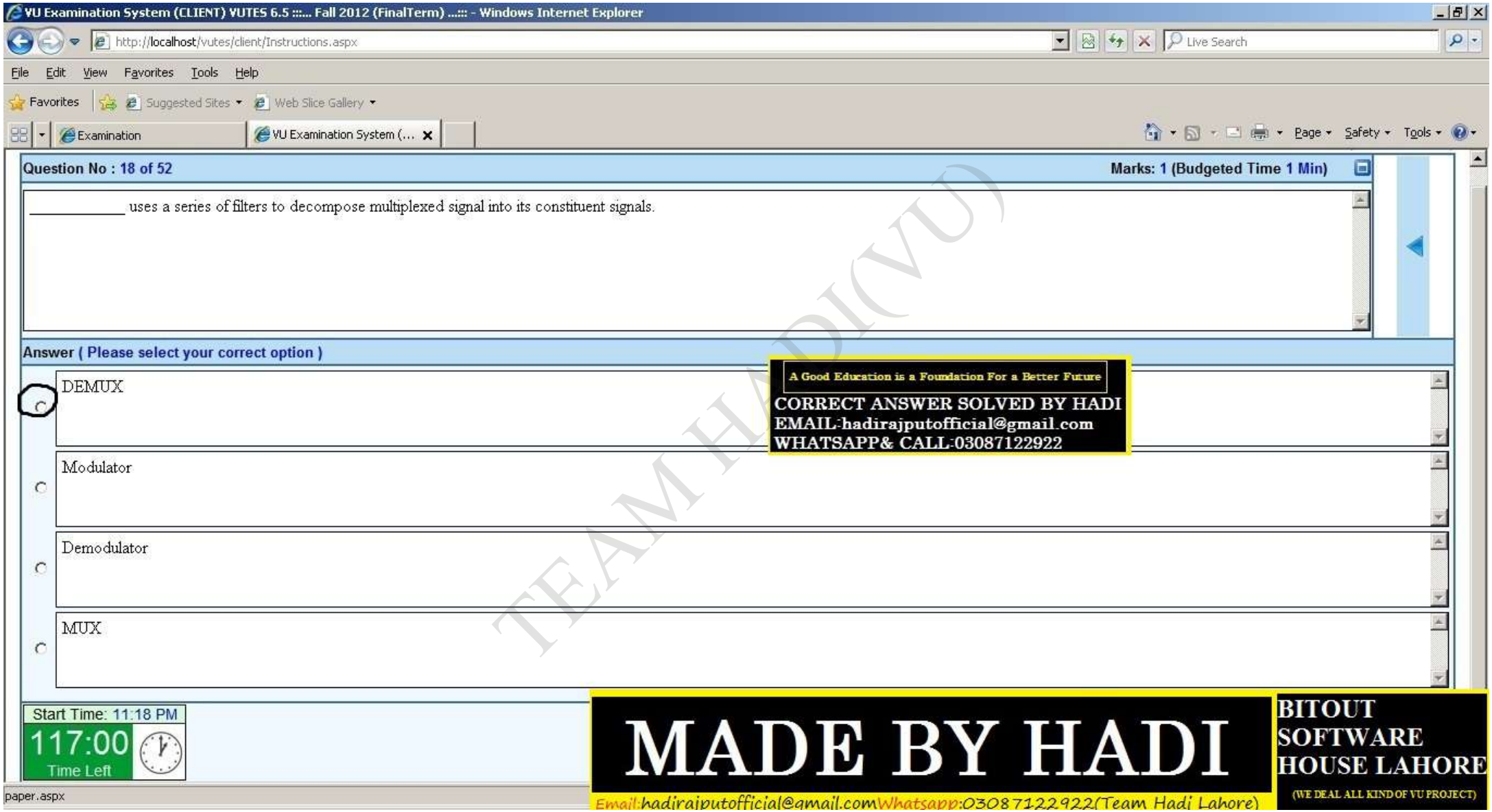
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Question No : 18 of 52
Marks: 1 (Budgeted Time 1 Min)
_____ uses a series of filters to decompose multiplexed signal into its constituent signals.
Answer (Please select your correct option)
DEMUX
Modulator
Demodulator
MUX
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Question No : 19 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is a technique which specifically works on light beams.

Answer (Please select your correct option)

- FDM
- WDM
- TDM
- CDM

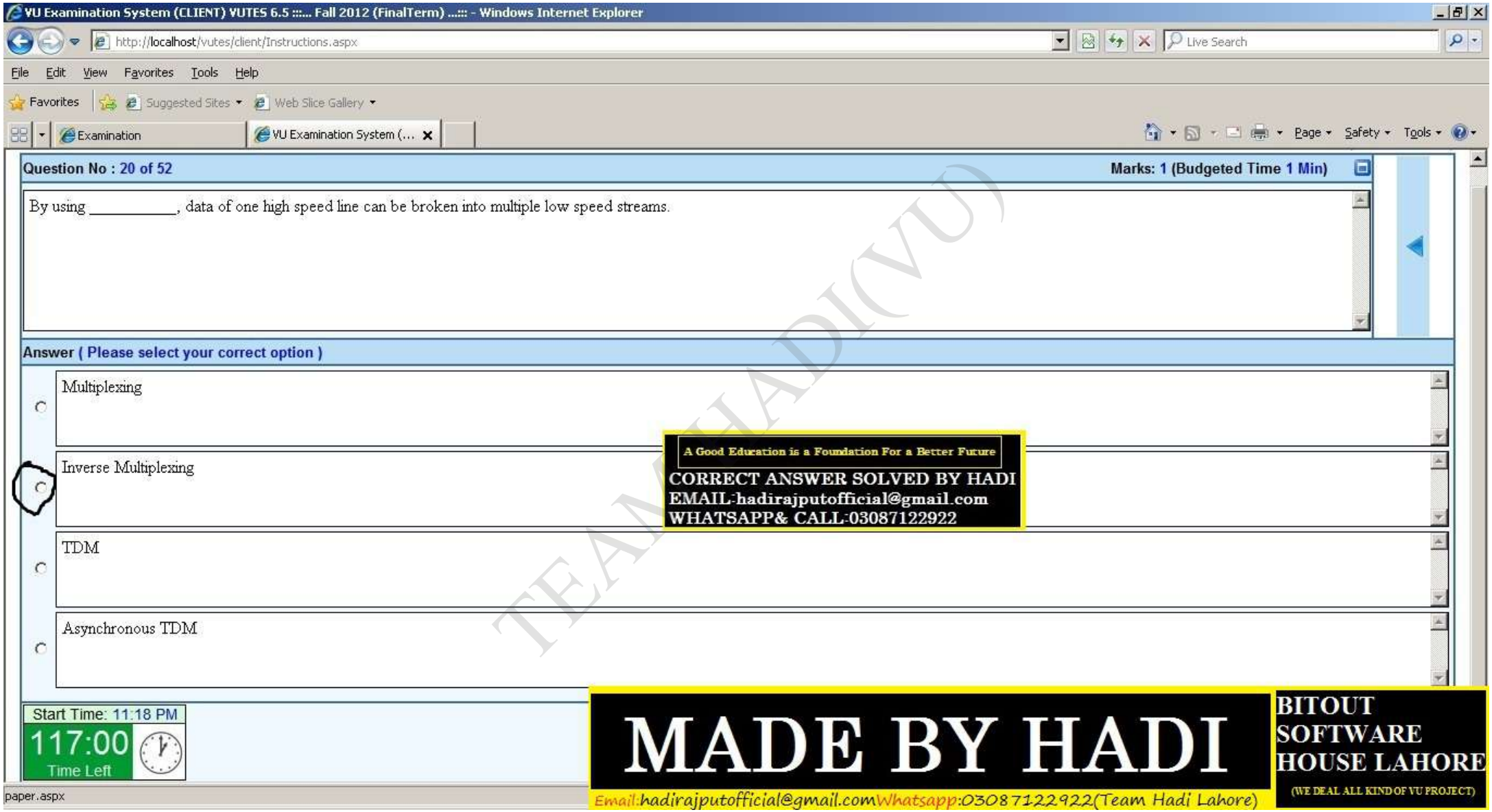
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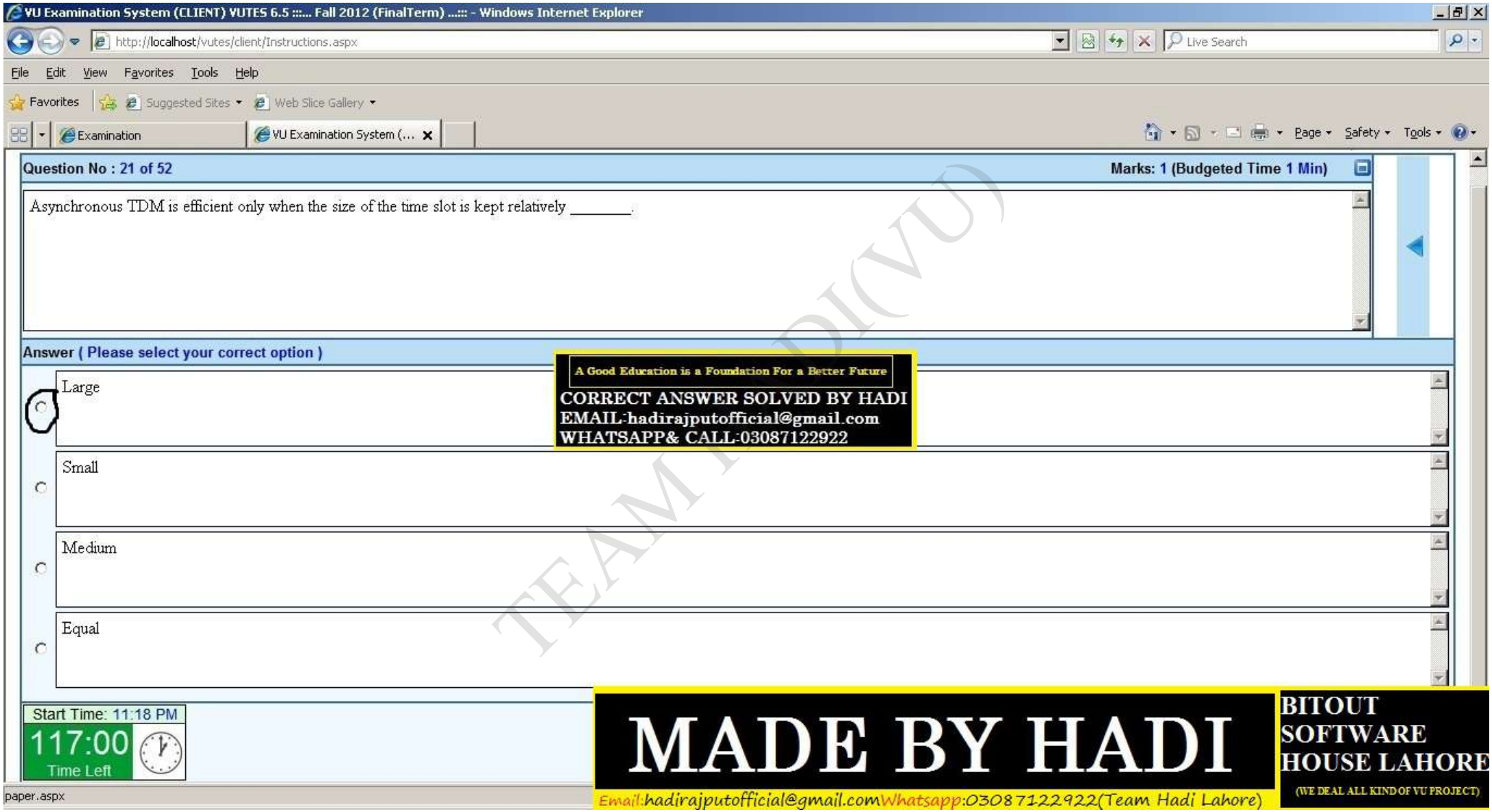
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Question No : 20 of 52
Marks: 1 (Budgeted Time 1 Min)
By using _____, data of one high speed line can be broken into multiple low speed streams.
Answer (Please select your correct option)
Multiplexing
Inverse Multiplexing
TDM
Asynchronous TDM
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Question No : 21 of 52
Marks: 1 (Budgeted Time 1 Min)
Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.
Answer (Please select your correct option)
Large
Small
Medium
Equal
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Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Data link control is composed of _____ important functions.

Answer (Please select your correct option)

1

2

3 *line discipline*
Flow control
Error control

4

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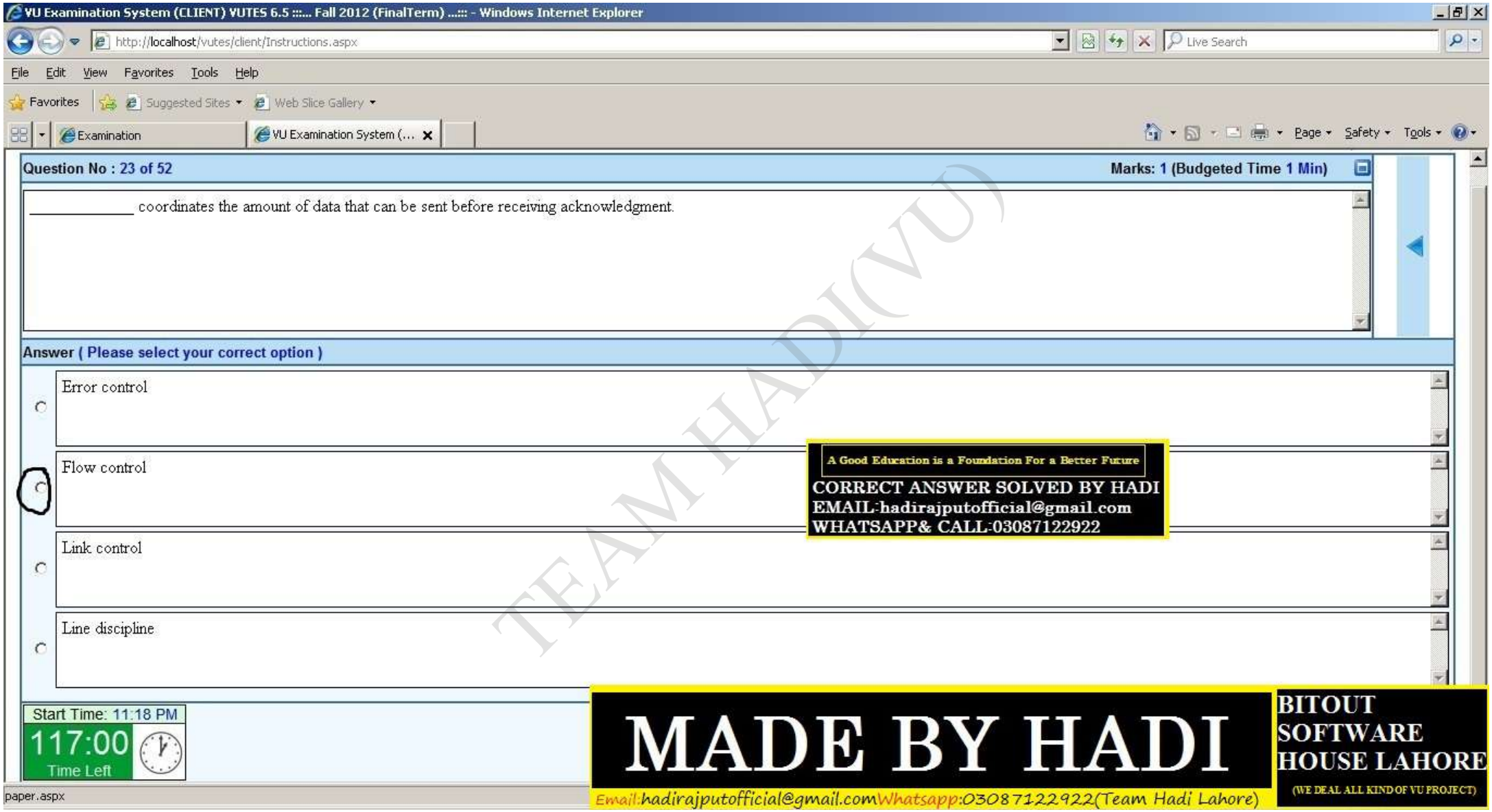
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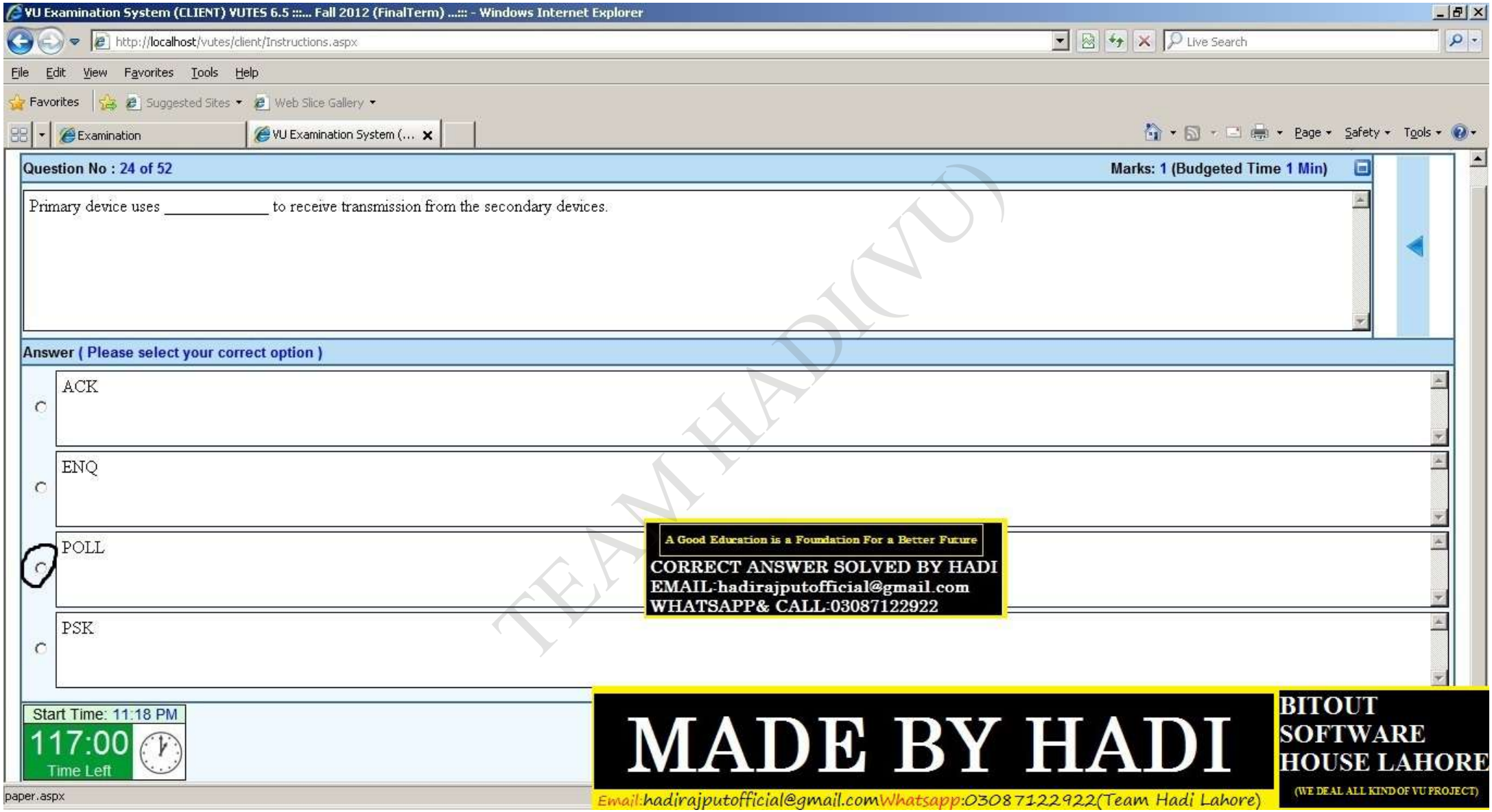
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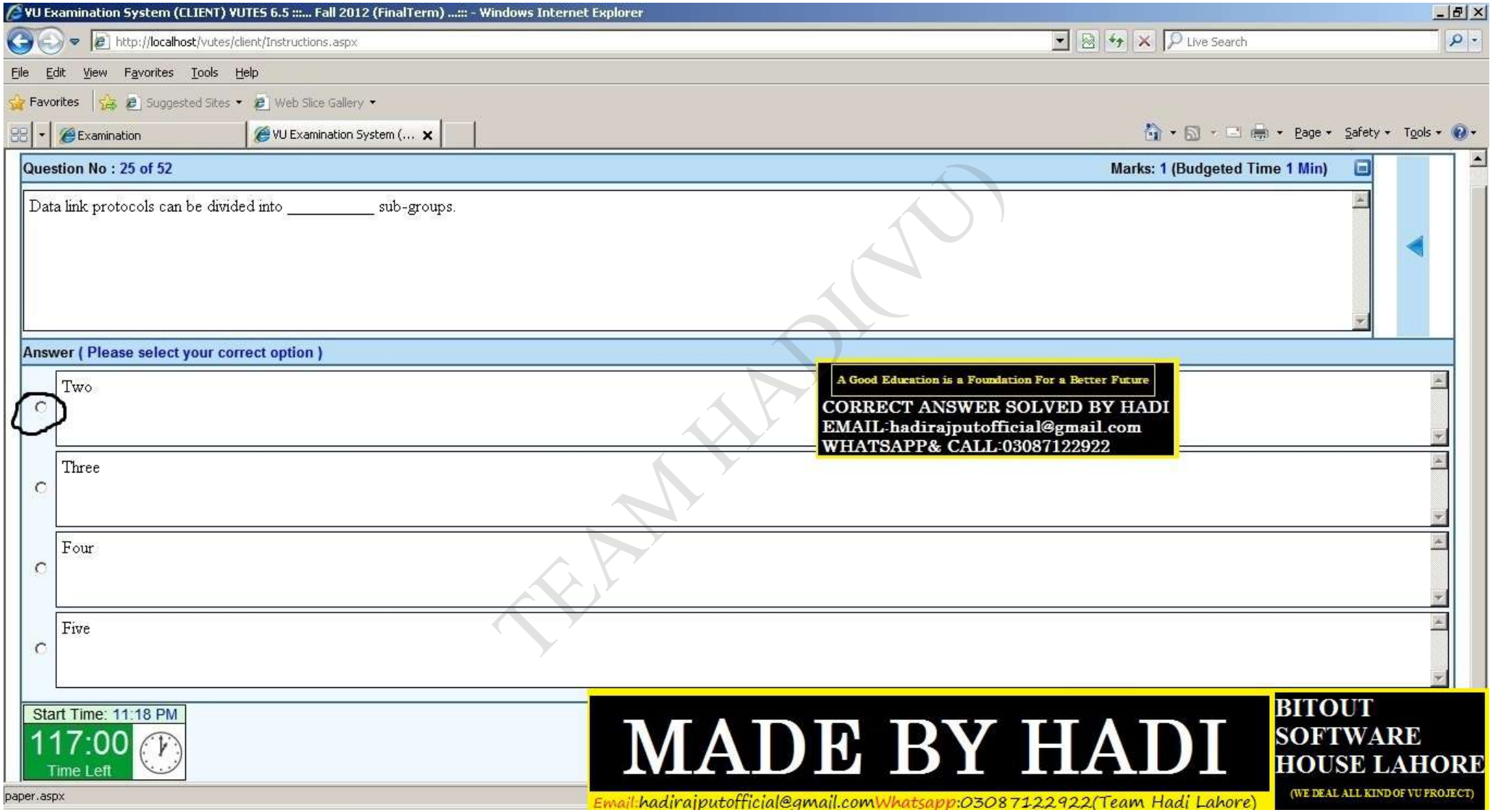
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Question No : 23 of 52
Marks: 1 (Budgeted Time 1 Min)
_____ coordinates the amount of data that can be sent before receiving acknowledgment.
Answer (Please select your correct option)
Error control
Flow control
Link control
Line discipline
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Question No : 24 of 52
Marks: 1 (Budgeted Time 1 Min)
Primary device uses _____ to receive transmission from the secondary devices.
Answer (Please select your correct option)
ACK
ENQ
POLL
PSK
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Question No : 25 of 52
Marks: 1 (Budgeted Time 1 Min)
Data link protocols can be divided into _____ sub-groups.
Answer (Please select your correct option)
Two
Three
Four
Five
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Question No : 26 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Sliding Window mechanism requires data frames to be transmitted _____.

Answer (Please select your correct option)

- In reverse order
- Without order
- Sequentially
- Twice

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Question No : 27 of 52 **Marks: 1 (Budgeted Time 1 Min)**

YMODEM uses _____ for Error Checking.

Answer (Please select your correct option)

- CRC-4
- CRC-8
- CRC-16
- CRC-32

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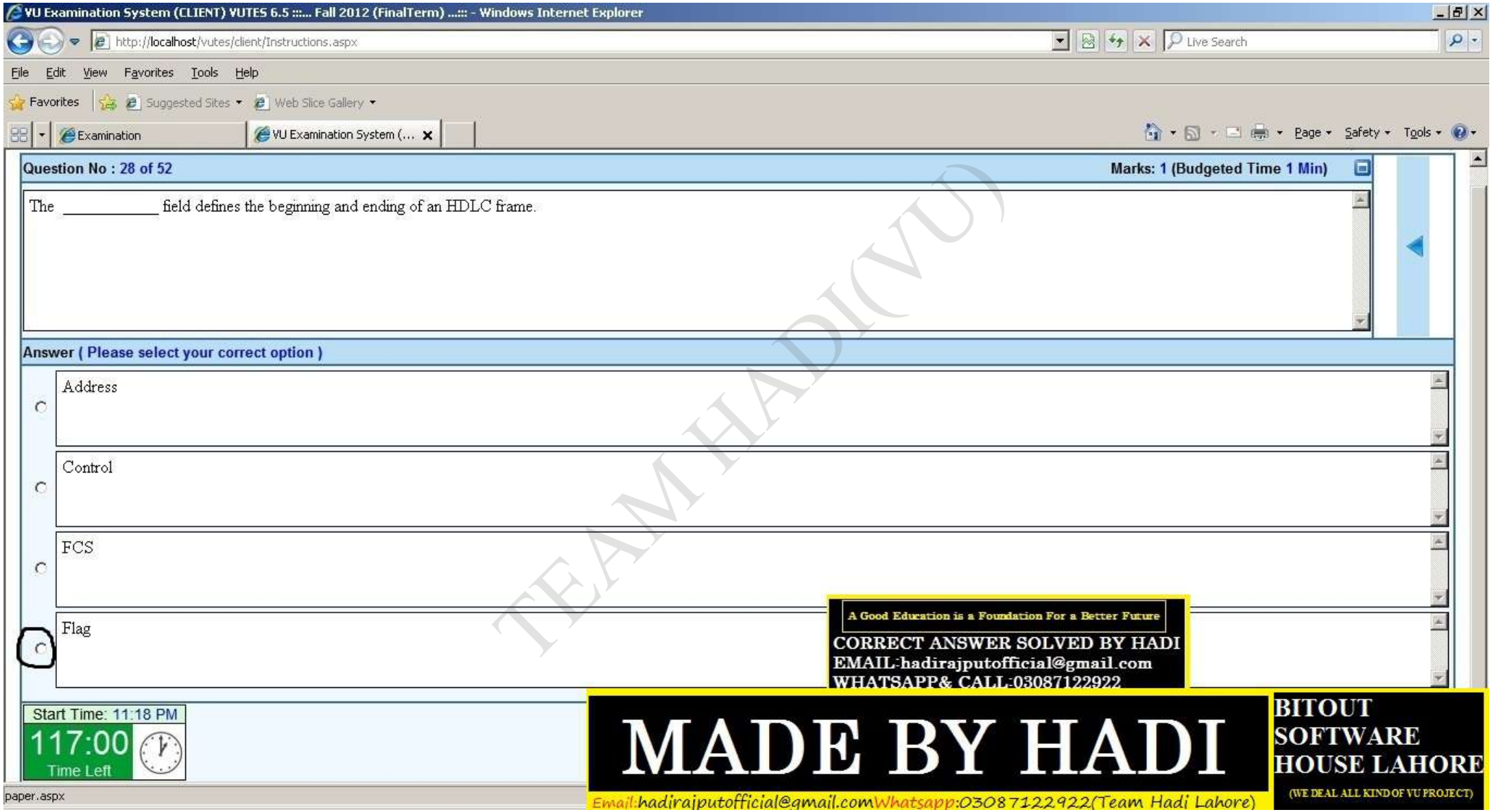
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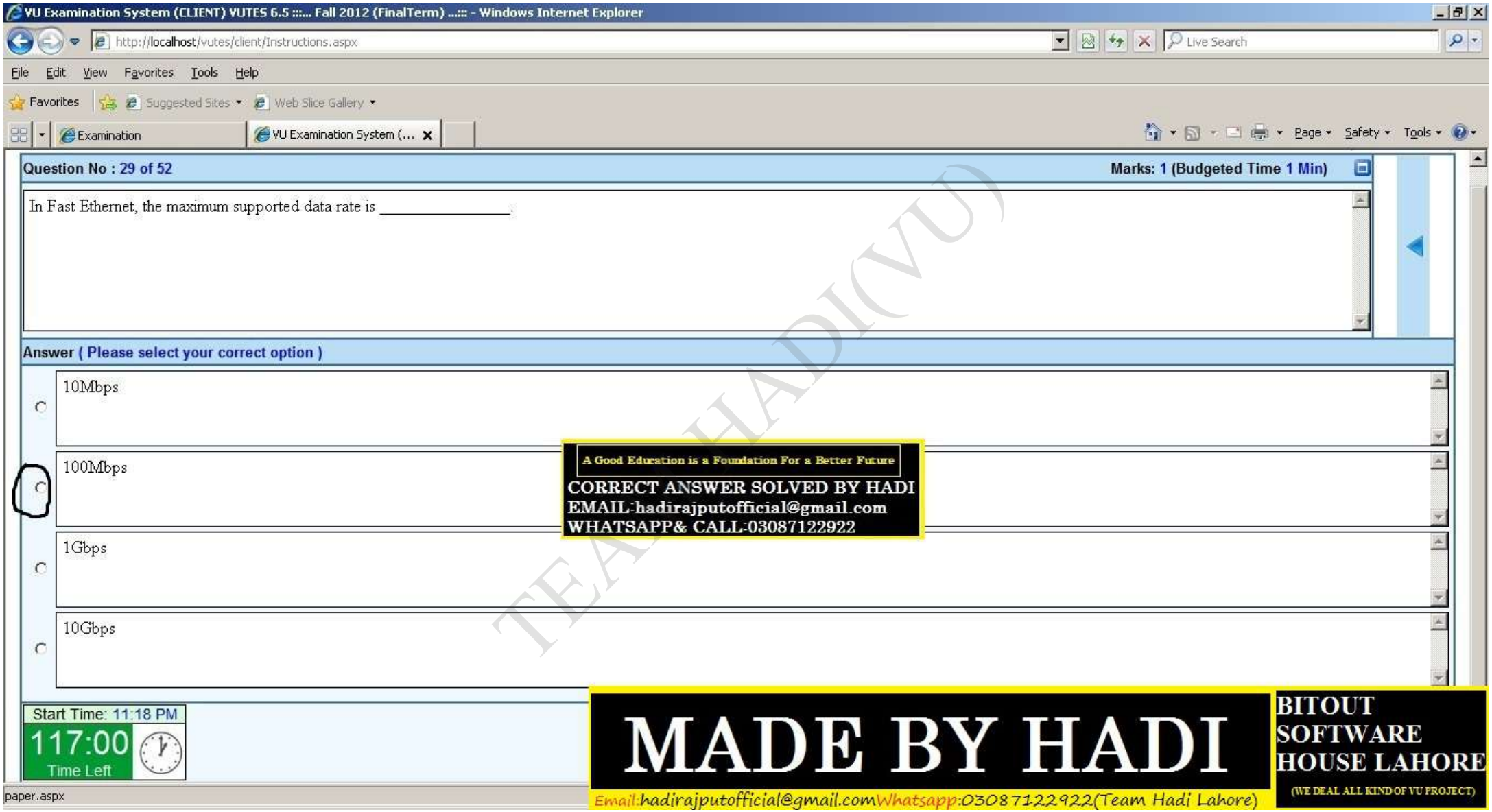
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Marks: 1 (Budgeted Time 1 Min)
The _____ field defines the beginning and ending of an HDLC frame.
Answer (Please select your correct option)
Address
Control
FCS
Flag
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Marks: 1 (Budgeted Time 1 Min)
In Fast Ethernet, the maximum supported data rate is _____.
Answer (Please select your correct option)
10Mbps
100Mbps
1Gbps
10Gbps
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Question No : 30 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is the access protocol used by traditional Ethernet.

Answer (Please select your correct option)

- CSMA
- CSMA/DC
- CSMA/CD
- CSMA/CC

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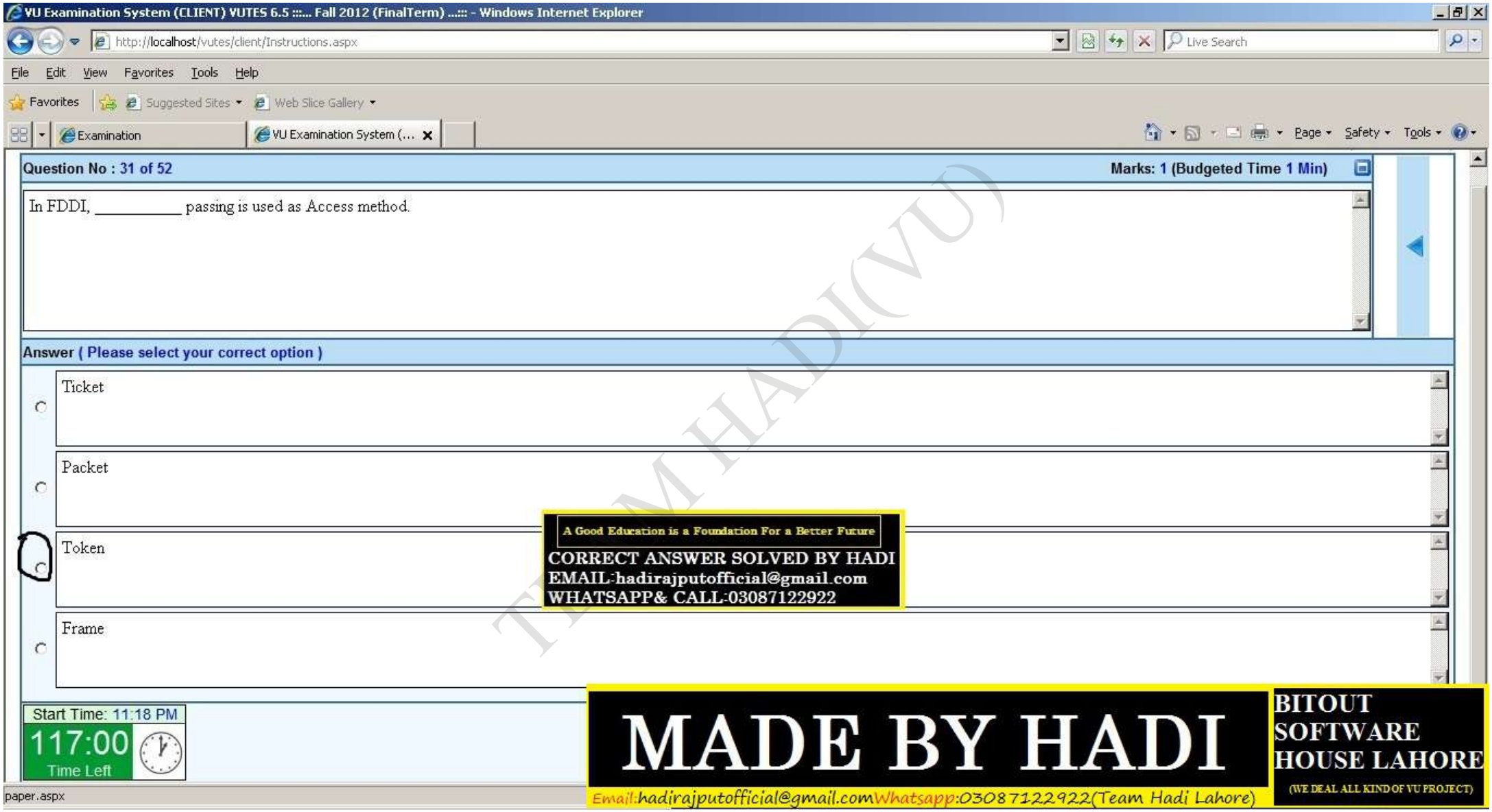
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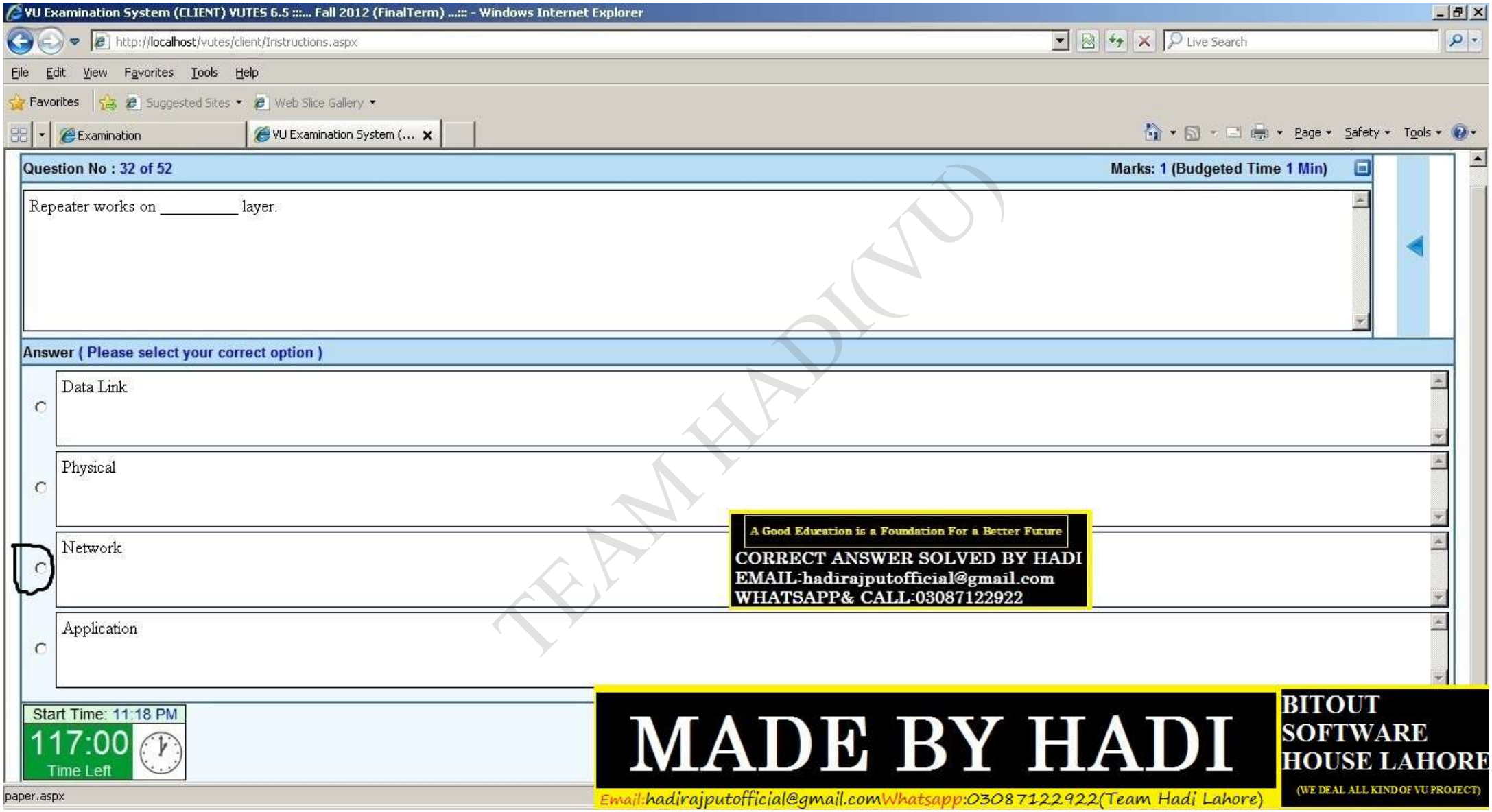
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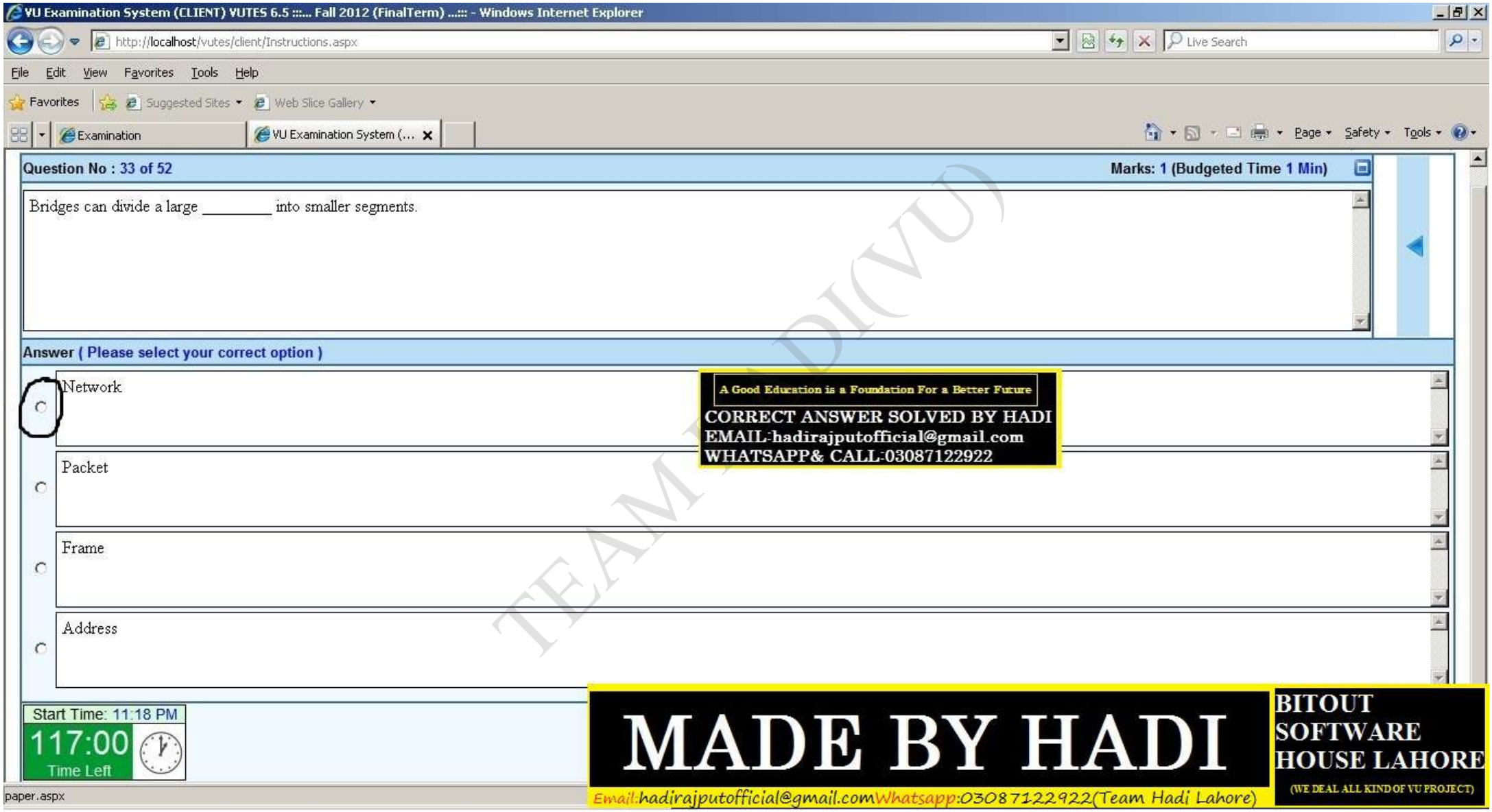
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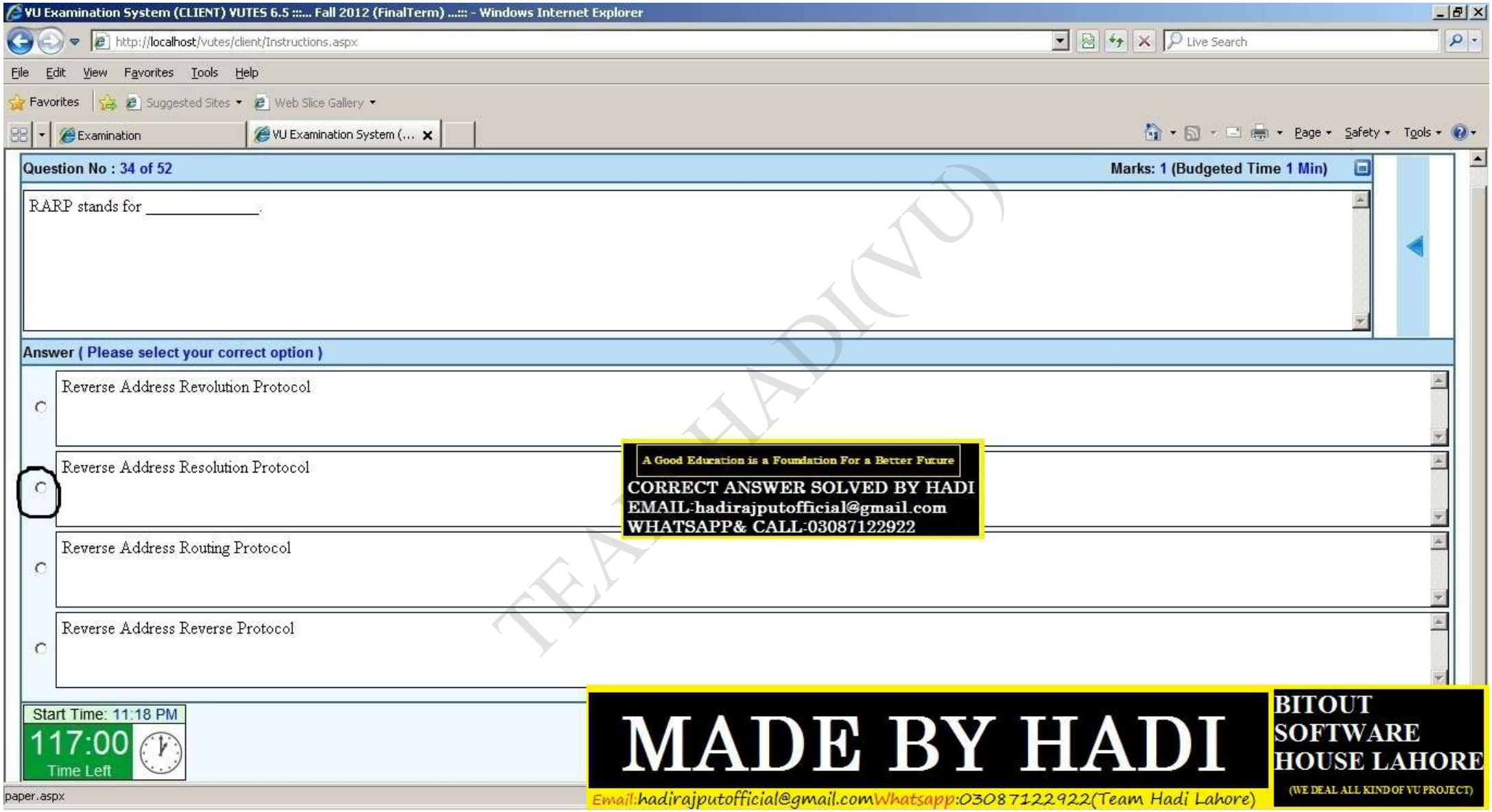
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Question No : 31 of 52
Marks: 1 (Budgeted Time 1 Min)
In FDDI, _____ passing is used as Access method.
Answer (Please select your correct option)
Ticket
Packet
Token
Frame
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Marks: 1 (Budgeted Time 1 Min)
Repeater works on _____ layer.
Answer (Please select your correct option)
Data Link
Physical
Network
Application
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Marks: 1 (Budgeted Time 1 Min)
Bridges can divide a large _____ into smaller segments.
Answer (Please select your correct option)
Network
Packet
Frame
Address
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Question No : 34 of 52
Marks: 1 (Budgeted Time 1 Min)
RARP stands for _____.
Answer (Please select your correct option)
Reverse Address Revolution Protocol
Reverse Address Resolution Protocol
Reverse Address Routing Protocol
Reverse Address Reverse Protocol
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Question No : 35 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In extremely noisy channel signal to noise ratio is approximately equal to _____.

Answer (Please select your correct option)

- 0
- 1
- 2
- 3

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Question No : 36 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Europeans use a version of T-lines called _____ .

Answer (Please select your correct option)

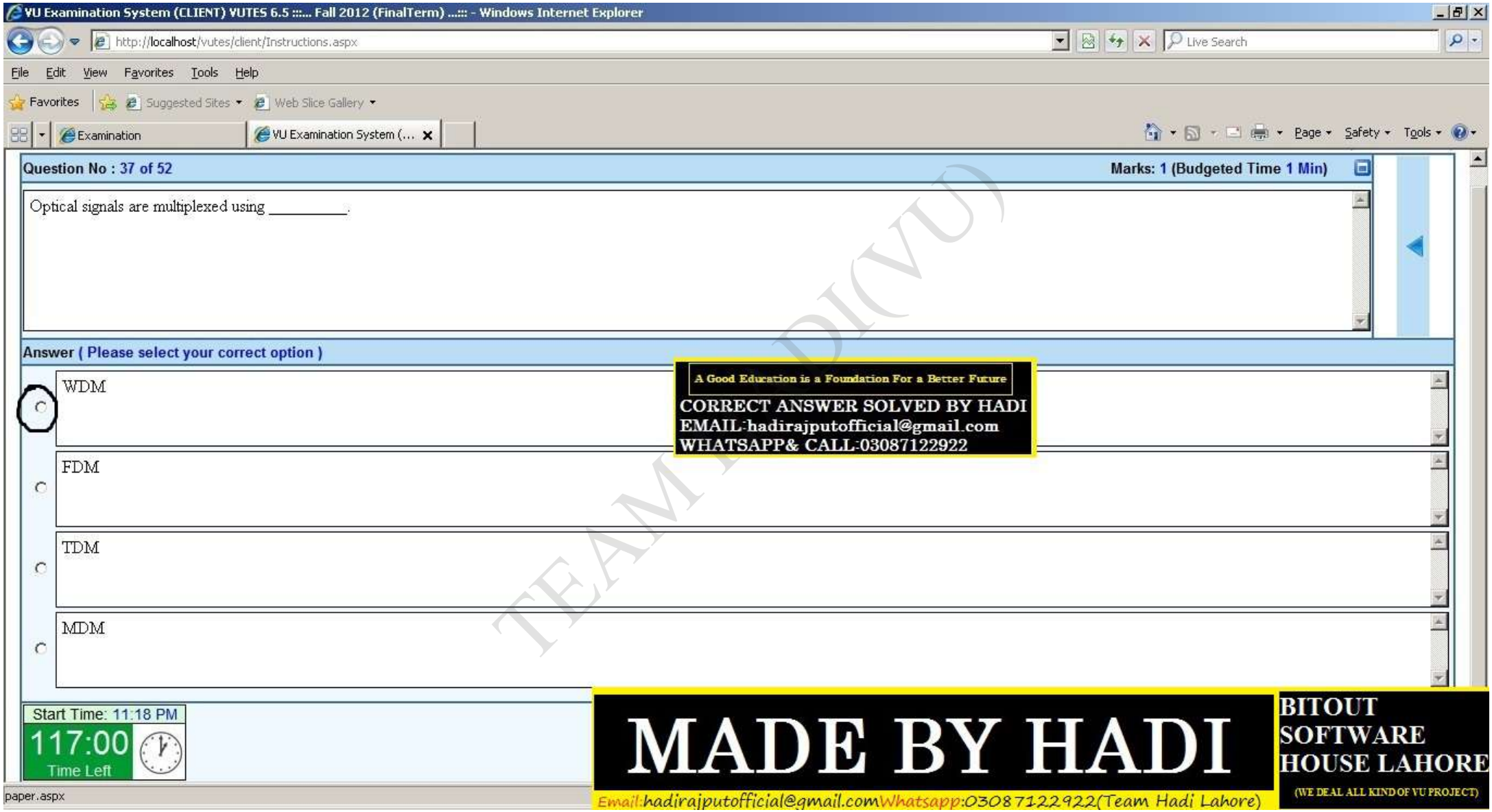
- F-lines
- E-lines
- D-lines
- S-lines

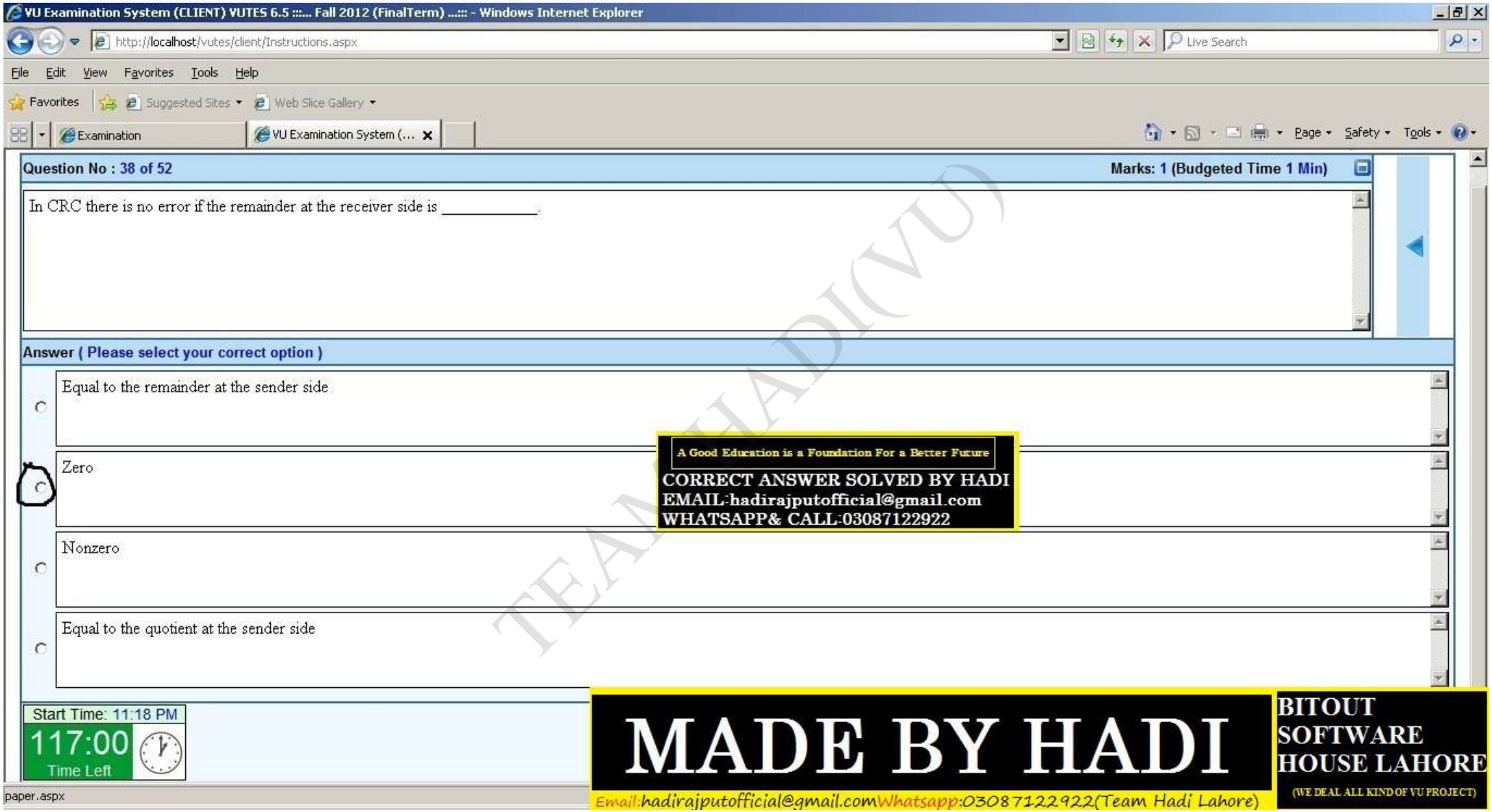
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Question No : 37 of 52
Marks: 1 (Budgeted Time 1 Min)
Optical signals are multiplexed using _____.
Answer (Please select your correct option)
WDM
FDM
TDM
MDM
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Question No : 38 of 52
Marks: 1 (Budgeted Time 1 Min)
In CRC there is no error if the remainder at the receiver side is _____.
Answer (Please select your correct option)
Equal to the remainder at the sender side
Zero
Nonzero
Equal to the quotient at the sender side
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Question No : 39 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit after the division process.

Answer (Please select your correct option)

- 0s are
- 1s are
- The polynomial
- The remainder

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Question No : 40 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

Start Time: 11:18 PM

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Best of luck!

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 09:15 PM, 28 January 2023

Question # 1 of 20 (Start time: 09:15:54 PM, 28 January 2023) Total Marks:

In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

Select the correct option

- Four times
- Three times
- Two times
- Same as

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 9 of 20 (Start time: 10:21:04 PM, 27 January 2023)

Total Marks: 1

In Block coding scheme, number of code words is always _____ data words.

Select the correct option

- Greater than
- Same as
- Equal to
- Less than

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 9 of 20 (Start time: 09:21:10 PM, 28 January 2023)

Total Marks: 1

In _____, each station is forced to send a frame only at beginning of time slot.

Select the correct option

- ○ Fragmented ALOHA
- ○ Pure ALOHA
- ◉ Slotted ALOHA
- ○ None of the given

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 09:15 PM, 28 January 2023

Question # 6 of 20 (Start time: 09:18:54 PM, 28 January 2023) Total Marks: 1

In _____, a station monitors the medium after it sends a frame to see if the transmission was successful.

Select the correct option

- None of the given
- CSMA/CD
- CSMA
- CSMA/CA

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 17 of 20 (Start time: 09:26:25 PM, 28 January 2023)

Total Marks:

Checksum is an error-detection technique that can be applied to a message of _____ length.

Select the correct option

- Exactly 8
- Exactly 4
- Exactly 32
- Any

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 12 of 20 (Start time: 09:22:44 PM, 28 January 2023)

Total Marks: 1

Possession of TOKEN gives the station the right to_____.

Select the correct option

- ○ Modify the data
- ◉ Send the data
- ○ Delete the data
- ○ Receive the data

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 2 of 20 (Start time: 09:16:43 PM, 28 January 2023)

Total Marks: 1

_____ is the process of converting digital data to digital signals.

Select the correct option

- CSMA/CA
- CSMA/CD
- Line coding
- Segmentation

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 11 of 20 (Start time: 10:22:42 PM, 27 January 2023)

Total Marks: 1

In _____ protocol, the sender sends one frame at a time and waits for an acknowledgment before sending the next one.

Select the correct option

- ( ) Go-Back-N
- (•) Stop-and-Wait
- ( ) Selective-Repeat
- ( ) Simple

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 16 of 20 (Start time: 09:25:40 PM, 28 January 2023)

Total Marks: 1

In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

Select the correct option

- Port Forwarding
- Reservation
- Polling
- Token Passing

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 09:15 PM, 28 January 2023

Question # 5 of 20 (Start time: 09:18:29 PM, 28 January 2023) **Total Marks:** 1

To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

Select the correct option

- ○ Network
- ○ Presentation
- ○ Physical
- ◉ Data link

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 09:15 PM, 28 January 2023

Question # 3 of 20 (Start time: 09:17:13 PM, 28 January 2023) Total Marks: 1

In _____ type of error, two or more bits in the data unit will be changed.

Select the correct option

- Single bit
- Zero
- Mono
- Burst

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 10:12 PM, 27 January 2023

Question # 20 of 20 (Start time: 10:34:21 PM, 27 January 2023) Total Marks: 1

S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

Select the correct option

- User data
- Redundant
- Original
- Control

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 10 of 20 (Start time: 10:21:49 PM, 27 January 2023)

Total Marks: 1

Payload field of the PPP frame is of variable size and it can carry maximum data up to _____.

Select the correct option

- 100 bytes
- 1500 bytes
- 500 bytes
- 10 bytes

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 13 of 20 (Start time: 10:24:33 PM, 27 January 2023)

Total Marks: 1

Go-Back-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

Select the correct option

- Presentation
- Physical
- Network
- Data link

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 10:12 PM, 27 January 2023

Question # 17 of 20 (Start time: 10:32:07 PM, 27 January 2023) Total Marks: 1

In even parity check code, the value of syndrome is _____ if the number of 1s is even.

Select the correct option

- (●) 0
- ( ) 2
- ( ) 4
- ( ) 1

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 12 of 20 (Start time: 10:23:18 PM, 27 January 2023)

Total Marks: 1

High-Level Data Link Control (HDLC) defines _____ types of frames to deal with the transfer modes.

Select the correct option

- Four
- Two
- Six
- Three

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 10:12 PM, 27 January 2023

Question # 3 of 20 (Start time: 10:14:20 PM, 27 January 2023) Total Marks: 1

In order to resolve link layer address of the next node, the first generated ARP request is always in _____ mode.

Select the correct option

- (●) Broadcast
- ( ) Multicast
- ( ) Unicast
- ( ) Multiplex

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 09:15 PM, 28 January 2023

Question # 8 of 20 (Start time: 09:20:15 PM, 28 January 2023) Total Marks: 1

If we increase the data rate of a transmission over noisy channel, fixed noise duration will cause _____ number of bits being impacted by the noise.

Select the correct option

- Constant
- Less
- Same
- More

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 10:12 PM, 27 January 2023

Question # 8 of 20 (Start time: 10:19:53 PM, 27 January 2023) Total Marks: 1

_____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.

Select the correct option

- Frame sequencing
- Acknowledgement numbering
- Counter and Timer reset
- Frame sequencing and Acknowledgement numbering

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 6 of 20 (Start time: 10:18:18 PM, 27 January 2023)

Total Marks: 1

Checksum is an error-detection technique that can be applied to a message of _____ length.

Select the correct option

- Exactly 32
- Any
- Exactly 8
- Exactly 4

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 4 of 20 (Start time: 09:17:50 PM, 28 January 2023)

Total Marks: 1

Which one of the following is a correct controlled-access method?

Select the correct option

- Token Passing
- Polling
- All of the given
- Reservation

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 18 of 20 (Start time: 10:32:50 PM, 27 January 2023)

Total Marks: 1

In _____, each station is allocated a time slot during which it can send data.

Select the correct option

- CDMA
- FDMA
- TDMA
- NDMA

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 10 of 20 (Start time: 09:21:49 PM, 28 January 2023)

Total Marks: 1

In _____ protocol, the sender sends one frame at a time and waits for an acknowledgment before sending the next one.

Select the correct option

- (●) Stop-and-Wait
- ( ) Go-Back-N
- ( ) Selective-Repeat
- ( ) Simple

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 10:12 PM, 27 January 2023

Question # 7 of 20 (Start time: 10:19:08 PM, 27 January 2023) Total Marks: 1

CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

Select the correct option

- Five-way
- Three-way
- Two-way
- Four-way

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 10:12 PM, 27 January 2023

Question # 19 of 20 (Start time: 10:33:45 PM, 27 January 2023)

Total Marks: 1

In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

Select the correct option

- Port Forwarding
- Reservation
- Token Passing
- Polling

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 10:12 PM, 27 January 2023

Question # 5 of 20 (Start time: 10:17:39 PM, 27 January 2023) Total Marks: 1

If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations.

Select the correct option

- 16
- 8
- 4
- 2

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CS601 - Data Communication (Quiz 3)

Quiz Start Time: 09:15 PM, 28 January 2023

Question # 7 of 20 (Start time: 09:19:43 PM, 28 January 2023)

Total Marks: 1

In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

Select the correct option

- 16
- 4
- 8
- 28

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CS601 - Data Communication (Quiz 3) Quiz Start Time: 09:15 PM, 28 January 2023

Question # 13 of 20 (Start time: 09:23:44 PM, 28 January 2023) Total Marks: 1

Data link layer is divided into _____ sub layers.

Select the correct option

- (●) Two
- ( ) Seven
- ( ) Three
- ( ) Five

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 10:11 AM, 26 July 2023**

Question # 4 of 10 (Start time: 10:12:46 AM, 26 July 2023) **Total Marks: 1**

Transmission Control Protocol is a(n) _____ layer protocol.

Select the correct option

- ○ Session
- ◉ Transport
- ○ Network
- ○ Application

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CS601 - Data Communication (Quiz 4) Quiz Start Time: 11:34 AM, 26 July 2023

Question # 9 of 10 (Start time: 11:38:06 AM, 26 July 2023) Total Marks: 1

MAC address is of _____ .

Select the correct option

- 42 bits
- 24 bits
- 48 bits
- 36 bits

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CS601 - Data Communication (Quiz 4) Quiz Start Time: 10:11 AM, 26 July 2023

Question # 3 of 10 (Start time: 10:12:11 AM, 26 July 2023) Total Marks: 1

_____ is/are un-reliable protocol(s).

Select the correct option

- (●) UDP
- ( ) IP and TCP
- ( ) TCP
- ( ) IP and UDP

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 10:11 AM, 26 July 2023**

Question # 7 of 10 (Start time: 10:14:14 AM, 26 July 2023) **Total Marks:** 1

For Carrier Sense Multiple Access/Collision Detection (CSMA/CD), we need a restriction on the_____.

Select the correct option

- Signal Size
- Collision Size
- Station Size
- Frame Size

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CS601 - Data Communication (Quiz 4)

Quiz Start Time: 10:11 AM, 26 July 2023

Question # 2 of 10 (Start time: 10:11:37 AM, 26 July 2023)

Total Marks: 1

Fast Ethernet has a data rate of _____Mbps.

Select the correct option

- (●) 100
- ( ) 10
- ( ) 1000
- ( ) 10,000

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:27 AM, 19 July 2023**

Question # 1 of 10 (Start time: 10:27:29 AM, 19 July 2023) **Total Marks:** 1

One of the most common protocols for point-to-point access is _____.

Select the correct option

- IP
- TCP
- UDP
- PPP

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 11:34 AM, 26 July 2023**

Question # 1 of 10 (Start time: 11:34:19 AM, 26 July 2023) **Total Marks:** 1

In _____each band is reserved for a specific station, and it belongs to the station all the time.

Select the correct option

- ○ TDMA
- ○ CSMA
- ○ CDMA
- ◉ FDMA

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 10 of 10 (Start time: 11:04:52 AM, 19 July 2023) **Total Marks:**

Data link layer is divided into _____ sub layers.

Select the correct option

- Five
- Two
- Three
- Seven

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 5 of 10 (Start time: 11:02:52 AM, 19 July 2023) **Total Marks:** 1

Go-Back-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

Select the correct option

- ○ Presentation
- ○ Network
- ○ Physical
- ◉ Data link

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 6 of 10 (Start time: 11:03:14 AM, 19 July 2023) **Total Marks:** 1

Payload field of the PPP frame is of variable size and it can carry maximum data up to _____.

Select the correct option

- (●) 1500 bytes
- ( ) 10 bytes
- ( ) 500 bytes
- ( ) 100 bytes

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 11:34 AM, 26 July 2023**

Question # 5 of 10 (Start time: 11:36:05 AM, 26 July 2023) **Total Marks:** 1

In _____, collisions are avoided by deferring transmission even if the channel is idle.

Select the correct option

- ○ The Contention Window
- ○ The Deployment Frame
- ○ The Slotted Frame
- ◉ The Interframe Space

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CS601 - Data Communication (Quiz 4) Quiz Start Time: 11:34 AM, 26 July 2023

Question # 6 of 10 (Start time: 11:36:34 AM, 26 July 2023) **Total Marks:** 1

_____ uses thin coaxial cable.

Select the correct option

- (●) 10Base2
- ( ) 10Base-F
- ( ) 10Base5
- ( ) 10Base-T

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 10:11 AM, 26 July 2023**

Question # 8 of 10 (Start time: 10:15:04 AM, 26 July 2023) **Total Marks:** 1

The_____ method has the highest chance of collision because two or more stations may find the line idle and send their frames immediately.

Select the correct option

- ○ All of the given
- ○ Non-persistent
- ◉ 1-persistent method
- ○ p-Persistent

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 11:34 AM, 26 July 2023**

Question # 2 of 10 (Start time: 11:35:01 AM, 26 July 2023) **Total Marks:** 1

CDMA stands for_____.

Select the correct option

- ○ Code Data Multiple Access
- ○ Carrier Data Multiple Access
- ◉ Code Division Multiple Access
- ○ Carrier Division Multiple Access

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CS601 - Data Communication (Quiz 4)

Quiz Start Time: 10:11 AM, 26 July 2023

Question # 5 of 10 (Start time: 10:13:06 AM, 26 July 2023)

Total Marks: 1

In Ethernet frame, both destination and sender addresses are of length _____.

Select the correct option

- 2 byte
- 6 byte
- 1 byte
- 4 byte

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 10:11 AM, 26 July 2023**

Question # 10 of 10 (Start time: 10:16:58 AM, 26 July 2023) **Total Marks:** 1

CDMA stands for_____.

Select the correct option

- ○ Code Data Multiple Access
- ◉ Code Division Multiple Access
- ○ Carrier Data Multiple Access
- ○ Carrier Division Multiple Access

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CS601 - Data Communication (Quiz 4)

Quiz Start Time: 10:11 AM, 26 July 2023

Question # 9 of 10 (Start time: 10:16:16 AM, 26 July 2023) **Total Marks:** 1

In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

Select the correct option

- ○ Reservation
- ○ Token Passing
- ◉ Polling
- ○ Port Forwarding

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:27 AM, 19 July 2023**

Question # 8 of 10 (Start time: 10:31:54 AM, 19 July 2023) **Total Marks:**

Stop-and-Wait protocol is used for _____.

Select the correct option

- Error control only
- Neither flow nor error control
- Flow control only
- Both flow and error control

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CS601 - Data Communication (Quiz 4)

Quiz Start Time: 11:34 AM, 26 July 2023

Question # 10 of 10 (Start time: 11:38:27 AM, 26 July 2023)

Total Marks: 1

Possession of TOKEN gives the station the right to_____.

Select the correct option

- (●) Send the data
- ( ) Modify the data
- ( ) Delete the data
- ( ) Receive the data

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 3 of 10 (Start time: 11:01:09 AM, 19 July 2023) **Total Marks:**

If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

Select the correct option

- Constant
- More
- Less
- Zero

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 4 of 10 (Start time: 11:02:29 AM, 19 July 2023) **Total Marks: 1**

Checksum is an error-detection technique that can be applied to a message of _____ length.

Select the correct option

- ○ Exactly 8
- ○ Exactly 32
- ◉ Any
- ○ Exactly 4

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:27 AM, 19 July 2023**

Question # 10 of 10 (Start time: 10:33:32 AM, 19 July 2023) **Total Marks:** 1

In order to find Hamming distance between two pair of words, _____ logical operation is used.

Select the correct option

- AND
- XOR
- NAND
- OR

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:27 AM, 19 July 2023**

Question # 7 of 10 (Start time: 10:31:35 AM, 19 July 2023) **Total Marks:** 1

VCI address is _____ address in virtual circuit approach.

Select the correct option

- (●) Local
- ( ) Variable
- ( ) Global
- ( ) Private

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:27 AM, 19 July 2023**

Question # 6 of 10 (Start time: 10:31:17 AM, 19 July 2023) **Total Marks:** 1

To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

Select the correct option

- ○ Physical
- ○ Network
- ◉ Data link
- ○ Presentation

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 1 of 10 (Start time: 10:59:37 AM, 19 July 2023) **Total Marks: 1**

In Block coding we divide our message into blocks of k bits called as _____

Select the correct option

- ○ Cross words
- ○ Code words
- ○ Passwords
- ◉ Data words

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 10:11 AM, 26 July 2023**

Question # 1 of 10 (Start time: 10:11:01 AM, 26 July 2023) **Total Marks:** 1

DSL stands for _____.

Select the correct option

- (●) digital subscriber line
- ( ) data subscriber line
- ( ) data switched line
- ( ) digital switched line

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CS601 - Data Communication (Quiz 4) **Quiz Start Time: 10:11 AM, 26 July 2023**

Question # 6 of 10 (Start time: 10:13:37 AM, 26 July 2023) **Total Marks:** 1

A personal computer or workstation on an Ethernet network must have _____ card.

Select the correct option

- (●) NIC
- ( ) TDI
- ( ) None of the given
- ( ) PCI

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:59 AM, 19 July 2023**

Question # 2 of 10 (Start time: 11:00:38 AM, 19 July 2023) **Total Marks:** 1

The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

Select the correct option

- Cleaned
- Escaped
- Blocked
- Duplicated

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CS601 - Data Communication (Quiz 3) **Quiz Start Time: 10:27 AM, 19 July 2023**

Question # 5 of 10 (Start time: 10:30:52 AM, 19 July 2023) **Total Marks: 1**

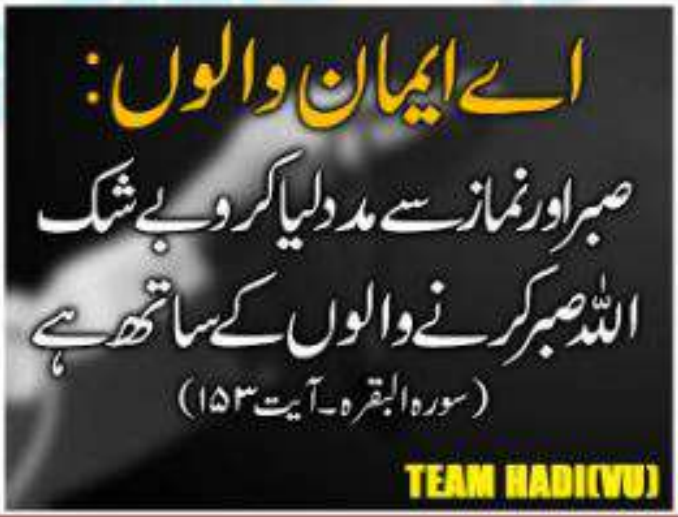
In even parity check code, the value of syndrome is _____ if the number of 1s is even.

Select the correct option

- 4
- 0
- 1
- 2

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Question No : 1 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The information to be communicated in a data communication system is the_____.

Answer (Please select your correct option)

- Medium
- Protocol
- Message
- Transmission

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Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A _____ provides a model for products manufactured by different manufacturers to operate together.

Answer (Please select your correct option)

- Protocol
- Standard
- Topology
- System

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Question No : 3 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is responsible for the delivery of data from node to node.

Answer (Please select your correct option)

- Physical layer
- Transport layer
- Network layer
- Data link layer

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Question No : 4 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ can be measured by measuring the vertical distance from a given point on the wave form to the horizontal axis.

Answer (Please select your correct option)

- Phase
- Amplitude *pg # 59*
- Frequency
- Time period

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Question No : 5 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Recording data point at some discrete levels is termed as _____.

Answer (Please select your correct option)

- Analog data
- Digital data

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- Infinite Frequency
- Continuous Signal

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Question No : 6 of 52 **Marks: 1 (Budgeted Time 1 Min)**

If a signal completes 10 cycles in one second, then time period will be _____.

Answer (Please select your correct option)

- 0.2 seconds
- 0.1 seconds
- 10 seconds
- 5 seconds

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Question No : 7 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The collection of all component frequencies is called _____.

Answer (Please select your correct option)

- Throughput
- Frequency spectrum
- Bandwidth
- Wavelength

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Question No : 8 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Although B8ZS and HDB3 provide almost same functionality, yet both the techniques behave differently _____.

Answer (Please select your correct option)

- When 8 or more 1's come
- When 8 or more consecutive 0's come
- When "0" come at start
- When "1" comes at start

not sure

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Question No : 9 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The sampling rate must be at least _____ the highest frequency.

Answer (Please select your correct option)

- Twice

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- Thrice
- Four time
- Half

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Question No : 10 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ refers to the process of measuring amplitudes at equal intervals for converting analog signals into digital signals.

Answer (Please select your correct option)

- Quantization
- Binary Encoding
- Sampling
- Modulation

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Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

According to _____ data rate is directly proportional to signal-to-noise ratio.

Answer (Please select your correct option)

- CRC
- Hamming Code
- Shannon's Formula
- Nyquist Theorem

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Question No : 12 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In Cable Modems, the BW is normally divided into _____ bands using FDM.

Answer (Please select your correct option)

- 6MHz

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- 60MHz
- 8MHz
- 80MHz

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Question No : 13 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The visible light is currently used for communications in _____ cable.

Answer (Please select your correct option)

- UTP
- STP
- Coaxial
- Fiber Optic

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Question No : 14 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The range of radio communication is _____ .

Answer (Please select your correct option)

- 30 KHz to 30 GHz
- 3 KHz to 300 GHz
- 300 KHz to 300 GHz
- 3 MHz to 300 GHz

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Question No : 15 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Type of Optical Fiber cable is defined by the ratio of the _____ of its core to the diameter of its cladding.

Answer (Please select your correct option)

- Diameter

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- Radius
- Length
- Density

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Question No : 16 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The section of EM spectrum defined as radio communication is divided into _____ ranges called Bands.

Answer (Please select your correct option)

- 5
- 6
- 8
- 10

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Question No : 17 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Ultra high-frequency waves always use_____ propagation.

Answer (Please select your correct option)

- Surface
- Sky
- Line of Sight
- Space

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Question No : 18 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ uses a series of filters to decompose multiplexed signal into its constituent signals.

Answer (Please select your correct option)

- DEMUX

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- Modulator
- Demodulator
- MUX

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Question No : 19 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is a technique which specifically works on light beams.

Answer (Please select your correct option)

- FDM
- WDM

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- TDM
- CDM

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Question No : 20 of 52 **Marks: 1 (Budgeted Time 1 Min)**

By using _____, data of one high speed line can be broken into multiple low speed streams.

Answer (Please select your correct option)

- Multiplexing
- Inverse Multiplexing
- TDM
- Asynchronous TDM

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Question No : 21 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

Answer (Please select your correct option)

- Large

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- Small
- Medium
- Equal

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Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Data link control is composed of _____ important functions.

Answer (Please select your correct option)

1

2

3 *line discipline*
Flow control
Error control

4

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Question No : 23 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ coordinates the amount of data that can be sent before receiving acknowledgment.

Answer (Please select your correct option)

- Error control
- Flow control
- Link control
- Line discipline

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Question No : 24 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Primary device uses _____ to receive transmission from the secondary devices.

Answer (Please select your correct option)

- ACK
- ENQ
- POLL
- PSK

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Question No : 25 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Data link protocols can be divided into _____ sub-groups.

Answer (Please select your correct option)

- Two

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- Three
- Four
- Five

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Question No : 26 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Sliding Window mechanism requires data frames to be transmitted _____.

Answer (Please select your correct option)

- In reverse order
- Without order
- Sequentially

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- Twice

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Question No : 27 of 52 **Marks: 1 (Budgeted Time 1 Min)**

YMODEM uses _____ for Error Checking.

Answer (Please select your correct option)

- CRC-4
- CRC-8
- CRC-16
- CRC-32

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Question No : 28 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ field defines the beginning and ending of an HDLC frame.

Answer (Please select your correct option)

- Address
- Control
- FCS
- Flag

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Question No : 29 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In Fast Ethernet, the maximum supported data rate is _____.

Answer (Please select your correct option)

- 10Mbps
- 100Mbps
- 1Gbps
- 10Gbps

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Question No : 30 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is the access protocol used by traditional Ethernet.

Answer (Please select your correct option)

- CSMA
- CSMA/DC
- CSMA/CD
- CSMA/CC

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Question No : 31 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In FDDI, _____ passing is used as Access method.

Answer (Please select your correct option)

- Ticket
- Packet
- Token
- Frame

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Question No : 32 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Repeater works on _____ layer.

Answer (Please select your correct option)

- Data Link
- Physical
- Network
- Application

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Question No : 33 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Bridges can divide a large _____ into smaller segments.

Answer (Please select your correct option)

- Network
- Packet
- Frame
- Address

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Question No : 34 of 52 **Marks: 1 (Budgeted Time 1 Min)**

RARP stands for _____.

Answer (Please select your correct option)

- Reverse Address Revolution Protocol
- Reverse Address Resolution Protocol

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- Reverse Address Routing Protocol
- Reverse Address Reverse Protocol

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Question No : 35 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In extremely noisy channel signal to noise ratio is approximately equal to _____.

Answer (Please select your correct option)

- 0
- 1
- 2
- 3

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Question No : 36 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Europeans use a version of T-lines called _____ .

Answer (Please select your correct option)

- F-lines
- E-lines

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- D-lines
- S-lines

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Question No : 37 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Optical signals are multiplexed using _____.

Answer (Please select your correct option)

- WDM
- FDM
- TDM
- MDM

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Question No : 38 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In CRC there is no error if the remainder at the receiver side is _____.

Answer (Please select your correct option)

- Equal to the remainder at the sender side
- Zero
- Nonzero
- Equal to the quotient at the sender side

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Question No : 39 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit after the division process.

Answer (Please select your correct option)

- 0s are
- 1s are
- The polynomial
- The remainder

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Question No : 40 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

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Question No : 1 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Duration of bits is decided by _____ layer of the OSI model.

Answer (Please select your correct option)

- Transport layer
- Physical layer

pg#45

Date Rate (Bits per second) also decided by the Physical Layer. So , Physical layer defines the Duration of a Bit. Means how long will a bit last

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- Data link layer
- Application layer

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Question No : 1 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Line configuration is the function of _____ layer.

Answer (Please select your correct option)

- Data link
- Network
- Physical

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- Transport

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Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Line configuration is the function of _____ layer.

Answer (Please select your correct option)

- Data link
- Network
- Physical

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- Transport

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Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____decompose a composite signal into its components.

Answer (Please select your correct option)

- Fourier analysis
- Nyquist theorem
- Carrier frequency
- Shannon capacity

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Question No : 3 of 52 **Marks: 1 (Budgeted Time 1 Min)**

For transmitting analog signal over long distance, putting lower frequency component over higher frequency component is called _____.

Answer (Please select your correct option)

- Modulation

pg # 70

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- Digitization
- Encoding
- De-modulation

Question No : 3 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Wave position relative to zero is measured by _____ .

Answer (Please select your correct option)

- Frequency
- Time Period
- Phase — Phase describes the position of the waveform relative to time zero. pg # 61
- Amplitude

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Question No : 4 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Telephony and telegraphy standards are mostly developed by _____.

Answer (Please select your correct option)

- ISO
- ITU-T
- ANSI
- IEEE

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Question No : 4 of 52 Marks: 1 (Budgeted Time 1 Min)

Telephony and telegraphy standards are mostly developed by _____.

Answer (Please select your correct option)

- ISO
- ITU-T

Consultative Committee for International Telegraphy and Telephony(CCITT)
Pg # 24

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- ANSI
- IEEE

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Question No : 4 of 52 Marks: 1 (Budgeted Time 1 Min)

The information to be communicated in a data communication system is the_____.

Answer (Please select your correct option)

- Medium
- Protocol
- Message
- Transmission

Information or Data to be communicated. pg # 7

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Question No : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

Commonality in time domain plot and frequency domain plot is_____

Answer (Please select your correct option)

- Frequency
- Time
- Amplitude
- Phase

Time Domain plots show changes in signal amplitude w.r.t Time. and To show the relationship between amplitude and Frequency, we can use what is called a Frequency Domain Plot. pg # 63

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Question No : 5 of 52 Marks: 1 (Budgeted Time 1 Min)

In a network, _____ is the conduit between network nodes over which data moves.

Answer (Please select your correct option)

- Link
- Path
- Circuit
- Conductor

Circuit: the conduit over which data travels. *pg # 12*

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Question No : 6 of 52 Marks: 1 (Budgeted Time 1 Min)

If transmission speed of a signal is 128(bps) then it means _____.

Answer (Please select your correct option)

- Bit Rate: 128bits per second
- Bit rate: 0.0078bits per second
- Bit Rate: 64 Bits per second
- Bit Rate: 1/128 bits per second

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Question No : 6 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Trailer is only added at _____layer of OSI model.

Answer (Please select your correct option)

- Data link

Data Link layer adds a HEADER to Frame pg # 46

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- Physical
- Network
- Application

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Question No : 7 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Providing access to network resources is the function of _____layer.

Answer (Please select your correct option)

- Presentation
- Application

pg # 53

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- Session
- Physical

Question No : 9 of 52 Marks: 1 (Budgeted Time 1 Min)

In asynchronous transmission, the gap time between bytes is _____.

Answer (Please select your correct option)

- Zero
- Fixed
- Variable
- Infinity

Asynchronous means flexible or Not fixed pg # 156

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Question No : 9 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ topology operates data in both clock wise and anti-clock wise direction.

Answer (Please select your correct option)

- Mesh
- Ring
- Tree
- Star

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Question No : 10 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ generates the data and passes it along with any control information to a _____.

Answer (Please select your correct option)

- (O) DTE, DCE

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- ( ) DCE, DTE
- ( ) DCE, Nnode
- ( ) DTE, Application

Question No : 10 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is the process of assigning integral values from of a range of discrete values.

Answer (Please select your correct option)

- Binary Encoding
- PAM
- Quantization
- Modulation

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Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

According to _____ data rate is directly proportional to signal-to-noise ratio.

Answer (Please select your correct option)

- CRC
- Hamming Code
- Shannon's Formula

Shannon's formula Data rate ? Signal-to-noise ratio pg# 115

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- Nyquist Theorem

Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The visible light is currently used for communications in _____ cable.

Answer (Please select your correct option)

- UTP
- STP
- Coaxial
- Fiber Optic

Visible light, the third type of Electromagnetic energy currently used for communications is harnessed using fiber optic cable *pg#119*

Question No : 12 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In Cable Modems, the BW is normally divided into _____ bands using FDM.

Answer (Please select your correct option)

- 6MHz

This BW is normally divided into 6MHz bands using FDM pg # 118

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- 60MHz
- 8MHz
- 80MHz

Question No : 12 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The range of radio communication is _____ .

Answer (Please select your correct option)

- 30 KHz to 30 GHz
- 3 KHz to 300 GHz

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- 300 KHz to 300 GHz
- 3 MHz to 300 GHz

Question No : 13 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is popular for supporting higher bandwidth and higher data rate.

Answer (Please select your correct option)

- Coaxial Cable
- Optical Fiber

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- STP
- UTP

Question No : 13 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The speed of light is _____ in vacuume.

Answer (Please select your correct option)

- 3 Km/s
- 300 Km/s
- 300,000 Km/s

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Question No : 14 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The section of EM spectrum defined as radio communication is divided into _____ ranges called Bands.

Answer (Please select your correct option)

- 5
- 6
- 8
- 10

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Question No : 14 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Type of Optical Fiber cable is defined by the ratio of the _____ of its core to the diameter of its cladding.

Answer (Please select your correct option)

- (●) Diameter

Optical Fibers are defined by the ratio of the diameter of their Core to the diameter of their Cladding *pg # 130*

- ( ) Radius
- ( ) Length
- ( ) Density

Question No : 15 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Radio wave transmission utilizes _____ different types of propagation.

Answer (Please select your correct option)

- Two
- Three
- Four
- Five

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Question No : 15 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A parabolic dish antenna is a(n) _____ antenna.

Answer (Please select your correct option)

- Omnidirectional
- Bidirectional
- Unidirectional
- Horn

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Question No : 16 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ radio waves are radiated upward into the ionosphere where they are reflected back to earth.

Answer (Please select your correct option)

- Low frequency
- Higher frequency
- Very low frequency
- Middle frequency

correct answer
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Question No : 17 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The VLF and LF bands use _____ propagation for communications.

Answer (Please select your correct option)

- Surface

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- Sky
- Line of sight
- Space

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Question No : 18 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ uses a series of filters to decompose multiplexed signal into its constituent signals.

Answer (Please select your correct option)

- Modulator
- Demodulator
- MUX
- DEMUX

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Question No : 18 of 52 **Marks: 1 (Budgeted Time 1 Min)**

There are _____ basic categories of multiplexing.

Answer (Please select your correct option)

2

3 *FDM, TDM WDM PG # 148*

4

5

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Question No : 19 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is a technique which specifically works on light beams.

Answer (Please select your correct option)

- FDM
- WDM

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- TDM
- CDM

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Question No : 19 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A prism deflects the light depending upon the angle of _____ and the frequency.

Answer (Please select your correct option)

- Deviation
- Incidence
- Refraction
- Reflection

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Question No : 20 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Multiplexing is the set of techniques that allows simultaneous transmission of multiple signals across _____ data link(s).

Answer (Please select your correct option)

- Multiple
- Single
- Double
- Different

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Question No : 20 of 52 **Marks: 1 (Budgeted Time 1 Min)**

By using _____, data of one high speed line can be broken into multiple low speed streams.

Answer (Please select your correct option)

- Multiplexing
- Inverse Multiplexing
- TDM
- Asynchronous TDM

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Question No : 21 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Using _____ technique, MUX adds extra bits to data.

Answer (Please select your correct option)

- Bit Stuffing

In bit stuffing, MUX adds extra bits to a device pg#156

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- Decompression
- Switching
- Exchanging

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Question No : 21 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In primary-secondary communication process, session is always initiated by _____.

Answer (Please select your correct option)

- Secondary device
- Intermediate device
- Any receiving device
- Primary device

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Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ coordinates the amount of data that can be sent before receiving acknowledgment.

Answer (Please select your correct option)

- Error control
- Flow control
- Link control
- Line discipline

Pg # 186

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Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Addressing is not needed in _____ configuration in the perspective of line discipline.

Answer (Please select your correct option)

- Routers
- Point to Point
- Multipoint
- Multipoint and Point to Point

o For point-to-point configuration, there is no need for addressing pg # 190

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Question No : 23 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In line discipline, the initiator first transmits a frame called an _____ .

Answer (Please select your correct option)

- Enquiry — *ENQ (Enquiry)* — *pg # 189*
- Acknowledgment
- NAK
- EOT

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Question No : 23 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Primary device uses _____ to receive transmission from the secondary devices.

Answer (Please select your correct option)

- ACK
- ENQ
- POLL Pg # 191
- PSK

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Question No : 24 of 52 **Marks: 1 (Budgeted Time 1 Min)**

If sender sent some frames from 0 to 10 and received the 'ACK 5' then according to the method Go-Back-N ARQ, the receiver has received _____ frame(s).

Answer (Please select your correct option)

- 0
- 0 to 5
- 0 to 4
- 0 to 10

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Question No : 25 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Error control in the data link layer is based on _____.

Answer (Please select your correct option)

- Automatic repeat acknowledgment
- Automatic send acknowledgment
- Automatic deny request
- Automatic repeat request

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Question No : 25 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Data link protocols can be divided into _____ sub-groups.

Answer (Please select your correct option)

- Two

  pg # 202
- Three
- Four
- Five

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Question No : 26 of 52 **Marks: 1 (Budgeted Time 1 Min)**

YMODEM supports _____ Bytes data unit.

Answer (Please select your correct option)

- 128
- 256
- 512
- 1024

pg # 205

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Question No : 27 of 52 **Marks: 1 (Budgeted Time 1 Min)**

BLAST stands for _____ .

Answer (Please select your correct option)

- Blocked asynchronous transmission

Pg- 205

- Blocked synchronous transmission
- Barrel asynchronous transmission
- Below asynchronous transmission

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Question No : 28 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ field defines the beginning and ending of an HDLC frame.

Answer (Please select your correct option)

- Flag

pg # 214

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- Address
- Control
- FCS

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Question No : 29 of 52 **Marks: 1 (Budgeted Time 1 Min)**

CSMA/CD stands for_____.

Answer (Please select your correct option)

- Carrier sense multiple access/collision detection
- Collision sense multiple access/collision detection
- Collision stop multiple access/collision detection
- Control software multiple access/collision detection

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Question No : 29 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group.

Answer (Please select your correct option)

- First

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- Second
- Third
- Last

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Question No : 30 of 52 **Marks: 1 (Budgeted Time 1 Min)**

FDDI stands for _____ .

Answer (Please select your correct option)

- Fiber Distributed Data Interface
- Flexible Distributed Data Interface
- Fast Distributed Data Interface
- Fiber Distorted Data Interface

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Question No : 30 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is the access protocol used by traditional Ethernet.

Answer (Please select your correct option)

- CSMA
- CSMA/DC
- CSMA/CD
- CSMA/CC

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Question No : 31 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group.

Answer (Please select your correct option)

- (•) First — *The first bit of the DSAP indicates whether the frame is intended for an individual or a group* — *pg # 202*
- ( ) Second
- ( ) Third
- ( ) Last

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Question No : 31 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In FDDI, THT stands for _____.

Answer (Please select your correct option)

- Target Holding Timer
- Tier Holding Timer
- Token Hash Timer
- Token Holding Timer

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Question No : 32 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In Fast Ethernet, the maximum supported data rate is _____.

Answer (Please select your correct option)

- 10Mbps
- 100Mbps
- 1Gbps
- 10Gbps

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Question No : 32 of 52 **Marks: 1 (Budgeted Time 1 Min)**

RARP stands for _____.

Answer (Please select your correct option)

- Reverse Address Revolution Protocol
- Reverse Address Resolution Protocol

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- Reverse Address Routing Protocol
- Reverse Address Reverse Protocol

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Question No : 33 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A telephone network is an example of a _____ network.

Answer (Please select your correct option)

- Packet-switched
- Circuit-switched
- Message-switched
- Frame-switched

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Question No : 34 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Bridges can divide a large _____ into smaller segments.

Answer (Please select your correct option)

- Network

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- Packet
- Frame
- Address

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Question No : 34 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The data rate of a T-1 line is _____.

Answer (Please select your correct option)

- 2.544 Mbps
- 1.544 Mbps

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- 1.544 Kbps
- 1.544 Gbps

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Question No : 35 of 52 **Marks: 1 (Budgeted Time 1 Min)**

FTTC stands for _____.

Answer (Please select your correct option)

- Flexible to the curb
- Fiber to the curb *pg # 164*
- Fiber to the cable
- Fiber to the center

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Question No : 36 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In the process of CRC, _____ has not any importance and is not attached with data at sender/receiver side.

Answer (Please select your correct option)

- Quotient *not sure*
- Divisor
- Dividend
- Remainder

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Question No : 36 of 52 **Marks: 1 (Budgeted Time 1 Min)**

If the ASCII character H is sent and the character I is received, then _____ type of error is occurred.

Answer (Please select your correct option)

- Single-bit

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- ASCII error
- Burst
- Undetectable

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Question No : 37 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In CRC there is no error if the remainder at the receiver side is _____.

Answer (Please select your correct option)

- Equal to the remainder at the sender side
- Zero
- Nonzero
- Equal to the quotient at the sender side

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Question No : 38 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

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Question No : 39 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In the process of CRC, the quotient at the sender is _____.

Answer (Please select your correct option)

- The dividend at the receiver
- The divisor at the receiver
- Ignored
- The remainder at receiver

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Question No : 39 of 52 **Marks: 1 (Budgeted Time 1 Min)**

According to odd parity for error detection, if the number of 1's in the data segment are _____ then 0 is attached.

Answer (Please select your correct option)

- Even

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- Odd
- Twelve
- Ten

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Question No : 40 of 52 **Marks: 1 (Budgeted Time 1 Min)**

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
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- 1's are

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Question No : 40 of 52 **Marks: 1 (Budgeted Time 1 Min)**

IEEE divided the Baseband category into _____ standards.

Answer (Please select your correct option)

2

3

4

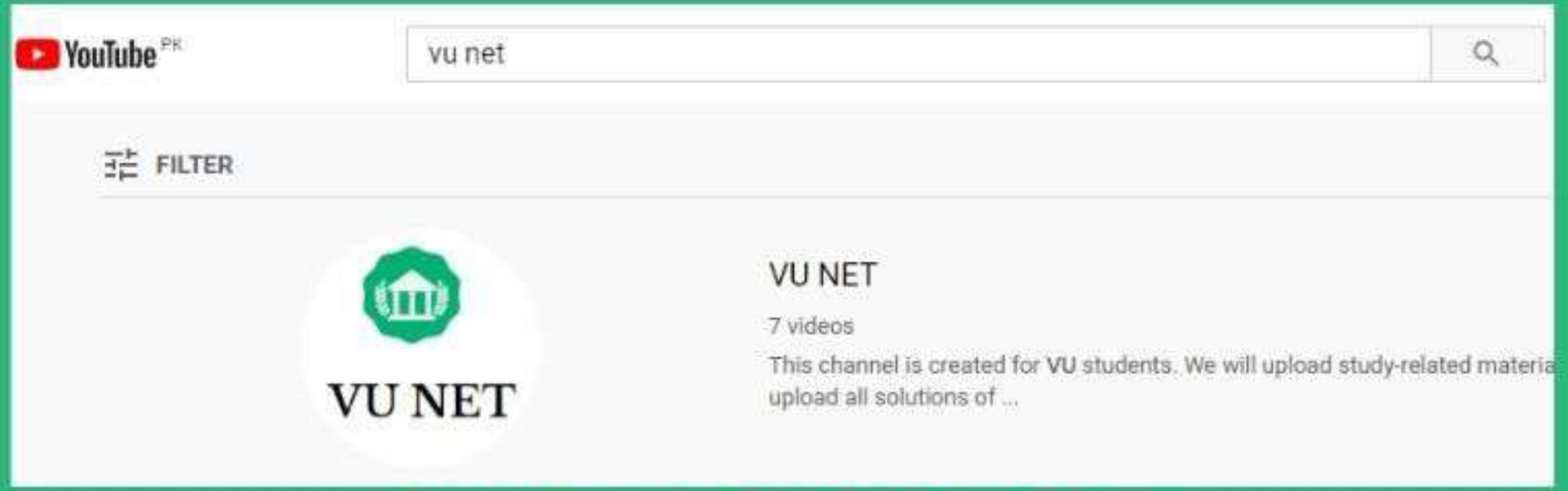
5

IEEE divides the base band category into 5 standards:
–10 Base 5 , 10 Base 2, 10 Base-T, 1 Base 5, 100 Base-T

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1. In a _____ connection, more than two devices can share a single link.

a. Point-to-point
b. Primary
c. Multipoint
d. Secondary

answer (c): Multipoint

2. Communication between a computer and a keyboard involves _____ transmission

a. Full-duplex
b. Half-duplex
c. Simplex
d. Automatic **answer** (c): Simplex

3. In a network with 25 computers, which topology would require the most extensive cabling?

a. Star
b. Mesh
c. Bus
d. Ring

answer (b): Mesh **4. Which topology requires a central controller or hub?**

a. Star
b. Mesh
c. Bus
d. Ring **answer** (a): Star

5. The _____ is the physical path over which a message travels.

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a. Protocol
b. Medium
c. Signal
d. All of the above **answer** (b): Medium

6. Which organization has authority over interstate and international commerce in the communications field? a. ITU-T
b. IEEE
c. ISO
d. FCC **answer** (d): FCC

7. The information to be communicated in a data communications system is the _____ a. Medium
b. Protocol
c. Transmission
d. Message **answer** (d): Message

8. Frequency of failure and network recovery time after a failure are measures of the _____ of a network. a. Performance
b. Security
c. Reliability
d. Feasibility **answer** (c): Reliability

9. In _____ transmission, the channel capacity is shared by both communicating devices at all times.
a. Full-duplex

b. Simplex
c. Half-duplex
d. Half-Simplex **answer** (a): Full-duplex

10. An unauthorized user is a network _____ issue.
a. Performance

b. Reliability
c. Security
d. All of the above **answer** (c): Security **11. Which topology requires a multipoint connection?**
a. Mesh
b. Star
c. Ring
d. Bus **answer** (d): Bus
12. A television broadcast is an example of _____ transmission.
a. Half-duplex
b. Full-duplex
c. Simplex
d. Automatic **answer** (c): Simplex
13. A _____ connection provides a dedicated link between two devices.
a. Multipoint
b. Point-to-Point
c. Primary
d. Secondary **answer** (b): Point-to-Point **14. A cable break in a _____ topology stops all transmission.**
a. Mesh
b. Star
c. Primary
d. Bus **answer** (d): Bus
Chapter 2: Network Models 15. The _____ layer changes bits into electromagnetic signals.
a. Physical
b. Transport
c. None of the above
d. Data link **answer** (a): Physical
16. The physical layer is concerned with the transmission of _____ over the physical medium.
a. Programs
b. Protocols
c. Bits
d. Dialogs

The correct **answer** is c

17. Mail services are available to network users through the _____ layer. a. Data link

b. Physical

c. Application

d. Transport

The correct **answer** is c

18. As the data packet moves from the lower to the upper layers, headers are _____. a. Added

b. Rearranged

c. Modified

d. Subtracted

The correct **answer** is d

Your **answer** is b

19. As the data packet moves from the upper to the lower layers, headers are _____. a. Removed

b. Added

c. Rearranged

d. Modified

The correct **answer** is b

20. The _____ layer lies between the network layer and the application layer. a. Data link

b. Physical

c. Transport

d. None of the above

The correct **answer** is c

21. Layer 2 lies between the physical layer and the _____ layer.

a. Data link

b. Network

c. Transport

d. None of the above

The correct **answer** is b

Your **answer** is b

22. When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer. a. Application

b. Physical

c. Transport

d. None of the above

The correct **answer** is c

Your **answer** is a

23. Which layer functions as a liaison between user support layers and network support layers?

a. Network layer

b. Transport layer

c. Physical layer

d. Application layer

The correct **answer** is b

24. What is the main function of the transport layer?

a. Process-to-process delivery

b. Node-to-node delivery

c. Synchronization

d. Updating and maintenance of routing tables

The correct **answer** is a **25. Which of the following is an application layer service?**

a. Remote log-in

b. File transfer and access

c. Mail service

d. All the above

The correct **answer** is d

26. The Internet model consists of _____ layers.

a. Three

b. Five

c. Seven

d. Eight

The correct **answer** is b

27. The process-to-process delivery of the entire message is the responsibility of the _____ layer. a. Physical

b. Network

c. Transport
d. Application The correct **answer** is c

28. The _____ layer is the layer closest to the transmission medium.

a. Network
b. Physical
c. Data link
d. Transport

The correct **answer** is b

Chapter 3: Signals

29. Before data can be transmitted, they must be transformed to _____.

a. Electromagnetic signals
b. Periodic signals
c. Aperiodic signals
d. Low-frequency sine waves

The correct **answer** is a

30. When one of the components of a signal has a frequency of zero, the average amplitude of the signal _____. a. Is less than zero
b. Is greater than zero
c. Is zero
d. (a) or (b)

The correct **answer** is b

31. A periodic signal can always be decomposed into _____.

a. Exactly an odd number of sine waves
b. A set of sine waves, one of which must have a phase of 0°
c. A set of sine waves
d. None of the above The correct **answer** is c

32. A periodic signal completes one cycle in 0.001 s. What is the frequency?

a. 1 Hz
b. 100 Hz
c. 1 KHz
d. 1 MHz

The correct **answer** is c

33. In a frequency-domain plot, the horizontal axis measures the _____. a. Frequency

b. Peak amplitude

c. Phase

d. Slope

The correct **answer** is a

34. In a time-domain plot, the vertical axis is a measure of _____.

a. Frequency

b. Phase

c. Amplitude

d. Time

The correct **answer** is c

35. In a time-domain plot, the horizontal axis is a measure of _____.

a. Signal amplitude

b. Time

c. Frequency

d. Phase

The correct **answer** is b

36. If the bandwidth of a signal is 5 KHz and the lowest frequency is 52 KHz, what is the highest frequency? a. 5 KHz

b. 10 KHz

c. 47 KHz

d. 57 KHz

The correct **answer** is d 37.

Your **answer** is a

38. What is the bandwidth of a signal that ranges from 40 KHz to 4 MHz? a. 3.96 MHz

b. 36 MHz

c. 360 KHz

d. 396 KHz

The correct **answer** is a

39. As frequency increases, the period _____.

a. Decreases

b. Increases

c. Remains the same
d. Doubles
The correct **answer** is a
40. When propagation speed is multiplied by propagation time, we get the _____. a. Throughput
b. Wavelength of the signal
c. Distance a signal or bit has traveled
d. Distortion factor
The correct **answer** is c
41. Propagation time is _____ proportional to distance and _____ proportional to propagation speed. a. Inversely; directly
b. Inversely; inversely
c. Directly; inversely
d. Directly; directly
The correct **answer** is c
42. Wavelength is _____ proportional to propagation speed and _____ proportional to period. a. Directly; directly
b. Inversely; directly
c. Directly; inversely
d. Inversely; inversely The correct **answer** is a
43. Which of the following can be determined from a frequency-domain graph of a signal? a. Phase
b. Power
c. Frequency
d. All the above The correct **answer** is c
44. Which of the following can be determined from a frequency-domain graph of a signal? a. Phase
b. Bandwidth
c. Power

d. All the above The correct **answer** is b
45. In a frequency-domain plot, the vertical axis measures the _____.
a. Frequency
b. Peak amplitude
c. Phase

d. Slope

The correct **answer** is b

46. Given two sine waves A and B, if the frequency of A is twice that of B, then the period of B is _____ that of A. a. One-half

b. Twice

c. The same as

d. Indeterminate from The correct **answer** is b

47. The wavelength of green light in air is _____ the wavelength of green light in fiber-optic cable. a. Greater than

b. Less than

c. Equal to

d. None of the above The correct **answer** is b

48. Using the Shannon formula to calculate the data rate for a given channel, if C = B, then _____. a. The signal is equal to the noise

b. The signal is less than the noise

c. The signal is greater than the noise

d. Not enough information is given to **answer** the question The correct **answer** is a

49. A sine wave is _____.

a. Aperiodic and continuous

b. Periodic and discrete

c. Aperiodic and discrete

d. Periodic and continuous The correct **answer** is d

50. If the maximum amplitude of a sine wave is 2 V, the minimum amplitude is _____ V. a. 2

b. 1

c. -2

d. Between -2 and 2 The correct **answer** is c

51. A signal is measured at two different points. The power is P1 at the first point and P2 at the second point. The dB is

0. This

means _____.

a. P2 is zero

b. P2 equals P1

c. P2 is much larger than P1

d. P2 is much smaller than P1 The correct **answer** is b

52. _____ is a type of transmission impairment in which the signal loses strength due to the resistance of the transmission medium.

a. Distortion
b. Noise
c. Decibel
d. Attenuation The correct **answer** is d

53. _____ is a type of transmission impairment in which the signal loses strength due to the different propagation speeds of each frequency that makes up the signal. a. Attenuation

b. Noise
c. Distortion
d. Decibel

The correct **answer** is c

54. _____ is a type of transmission impairment in which an outside source such as crosstalk corrupts a signal. a. Attenuation

b. Noise
c. Distortion
d. Decibel

The correct **answer** is b 55.

The _____ has units of meters/second or kilometers/second. a. Throughput

b. Propagation time
c. Propagation speed
d. (b) and (c) The correct **answer** is c

56. _____ has units of bits/second.

a. Throughput
b. Propagation speed
c. Propagation time
d. (b) and (c) The correct **answer** is a

57. The _____ has units of seconds.

a. Throughput
b. Propagation time
c. Propagation speed
d. (a) and (b) The correct **answer** is b 58.

The wavelength of a signal depends on the _____. a. Frequencies of the signal

b. Medium

c. Phase of the signal

d. (a) and (b) The correct **answer** is d

Chapter 4: Encoding and Modulation

59. Which encoding technique attempts to solve the loss of synchronization due to long strings of 0s? a. NRZ

b. BnZS

c. AMI

d. (a) and (b) The correct **answer** is b

60. Block coding can help in _____ at the receiver.

a. Synchronization

b. Error detection

c. Attenuation

d. (a) and (b) The correct **answer** is d

61. In _____ transmission, bits are transmitted simultaneously, each across its own wire. a. Parallel

b. Asynchronous serial

c. Synchronous serial

d. (a) and (b) The correct **answer** is a

62. Unipolar, bipolar, and polar encoding are types of _____ encoding. a. Block

b. Line

c. NRZ

d. Manchester The correct **answer** is b

63. _____ encoding has a transition at the middle of each bit.

a. RZ

b. Manchester

c. Differential Manchester

d. All the above The correct **answer** is d

64. _____ encoding has a transition at the beginning of each 0 bit.

a. Differential Manchester

b. RZ

c. Manchester
d. All the above The correct **answer** is a

65. PCM is an example of _____ conversion.
a. Analog-to-analog
b. Analog-to-digital
c. Digital-to-digital
d. Digital-to-analog The correct **answer** is b

66. If the frequency spectrum of a signal has a bandwidth of 500 Hz with the highest frequency at 600 Hz, what should be the sampling rate, according to the Nyquist theorem? a. 500 samples/s
b. 1000 samples/s
c. 200 samples/s
d. 1200 samples/s The correct **answer** is d

67. One factor in the accuracy of a reconstructed PCM signal is the _____.
a. Number of bits used for quantization
b. Signal bandwidth
c. Carrier frequency
d. Baud rate

The correct **answer** is a

68. In asynchronous transmission, the gap time between bytes is _____. a. Fixed
b. A function of the data rate
c. Variable

d. Zero

The correct is c

69. Synchronous transmission does not have _____.

a. A start bit
b. A stop bit
c. Gaps between bytes
d. All the above

The correct **answer** is d

70. Which encoding type always has a nonzero average amplitude?

a. Polar
b. Bipolar
c. Unipolar
d. All the above The correct **answer** is c

71. Which of the following encoding methods does not provide for synchronization? a. Manchester
b. NRZ-L
c. RZ
d. NRZ-I

The correct **answer** is b

72. Which encoding method uses alternating positive and negative values for 1s? a. Manchester
b. AMI
c. NRZ-I
d. RZ

The correct **answer** is b

73. In PCM, an analog-to- _____ conversion occurs.

a. Analog
b. Digital
c. QAM
d. Differential The correct **answer** is b

74. If the maximum value of a PCM signal is 31 and the minimum value is -31, how many bits were used for coding?

a. 4
b. 5

answer

c. 6
d. 7
The correct **answer** is c
75. RZ encoding involves _____ signal levels.
a. Five
b. Four
c. Three
d. Two
The correct **answer** is c
76. Which quantization level results in a more faithful reproduction of the signal? a. 2
b. 8
c. 16
d. 32
The correct **answer** is d
77. In _____ transmission, bits are transmitted over a single wire, one at a time. a. Asynchronous serial
b. Synchronous serial
c. Parallel
d. (a) and (b) The correct **answer** is d
78. In _____ transmission, a start bit and a stop bit frame a character byte.
a. Synchronous serial
b. Asynchronous serial
c. Parallel

d. (a) and (b) The correct **answer** is b
79. If a symbol is composed of 3 bits, there are _____ data levels. a. 2
b. 4
c. 8
d. 16
The correct is c
80. The Nyquist theorem specifies the minimum sampling rate to be_____.

a. Twice the bandwidth of a signal
b. Twice the highest frequency of a signal
c. Equal to the lowest frequency of a signal
d. Equal to the highest frequency of a signal The correct **answer** is b

81. Pulse rate is always _____ the bit rate.
a. Less than
b. Less than or equal to
c. Greater than
d. Greater than or equal to

The correct **answer** is b

Chapter 5: Multiplexing

82. AM and FM are examples of _____ modulation.
a. Analog-to-analog
b. Analog-to-digital
c. Digital-to-digital
d. Digital-to-analog The correct **answer** is a

Your **answer** is a

83. In QAM, both phase and _____ of a carrier frequency are varied.
a. Frequency
b. Bit rate
c. Amplitude
d. Baud rate

The correct **answer** is c

84. Which of the following is most affected by noise?
a. PSK
b. FSK
c. QAM
d. ASK

The correct **answer** is d

85. ASK, PSK, FSK, and QAM are examples of _____ modulation.
a. Analog-to-analog
b. Analog-to-digital
c. Digital-to-digital
d. Digital-to-analog The correct **answer** is d

answer

86. If the baud rate is 400 for a 4-PSK signal, the bit rate is _____ bps.
a. 1600 100
b. 800
c. 400
d. 100

The correct **answer** is b
87. If the bit rate for an ASK signal is 1200 bps, the baud rate is _____. a. 300
b. 400
c. 600
d. 1200
The correct **answer** is d
88. As the bit rate of an FSK signal increases, the bandwidth _____.
a. Remains the same
b. Decreases
c. Increases
d. Doubles
The correct **answer** is c
89. In 16-QAM, there are 16 _____.
a. Phases
b. Combinations of phase and amplitude
c. Amplitudes
d. bps
The correct **answer** is b
90. Which modulation technique involves tribits, eight different phase shifts, and one amplitude? a. FSK
b. ASK
c. 4-PSK
d. 8-PSK
The correct is d
91. If the bit rate for an FSK signal is 1200 bps, the baud rate is _____. a. 300
b. 400
c. 600

d. 1200

The correct **answer** is d

92. If the bit rate for a QAM signal is 3000 bps and a signal unit is represented by a tribit, what is the baud rate? a. 300

b. 400

c. 1000

d. 1200

The correct **answer** is c

93. If the baud rate for a QAM signal is 3000 and a signal unit is represented by a tribit, what is the bit rate? a. 300

b. 400

c. 1000

d. 9000

The correct **answer** is d

94. If the baud rate for a QAM signal is 1800 and the bit rate is 9000, how many bits are there per signal unit? a. 3

b. 4

c. 5

d. 6

The correct **answer** is c

95. Given an AM radio signal with a bandwidth of 10 KHz and the highest-frequency component at 705 KHz, what is the frequency of the carrier signal? a. 705 KHz

b. 700 KHz

c. 710 KHz

d. Cannot be determined from given information The correct **answer** is b

96. A modulated signal is formed by _____.

a. Changing the carrier wave by the modulating signal

b. Quantization of the source data

c. Changing the modulating signal by the carrier wave

d. Sampling at the Nyquist frequency The correct **answer** is a

97. If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart. a. 5 KHz

b. 10 KHz

answer

c. 200 KHz
d. 530 KHz
The correct **answer** is b
98. If FCC regulations are followed, _____ potential FM stations are theoretically possible in a given area. a. 50
b. 100
c. 133
d. 150
The correct **answer** is a
99. When an ASK signal is decomposed, the result is _____.
a. An infinite number of sine waves
b. Always one sine wave
c. Always two sine waves
d. None of the above The correct **answer** is a
100. The bandwidth of an FM signal requires 10 times the bandwidth of the _____ signal. a. Bipolar
b. Sampling
c. Carrier
d. Modulating The correct **answer** is d
101. Modulation of an analog signal can be accomplished through changing the _____ of the carrier signal.

a. Amplitude
b. Frequency
c. Phase
d. Any of the above The correct **answer** is d

102. For a telephone line, the bandwidth for voice is usually _____ the bandwidth for data. a. Less than
b. Greater than
c. Twice
d. Equivalent to The correct **answer** is b

103. For a given bit rate, the minimum bandwidth for ASK is _____ the minimum bandwidth for FSK. a. Less than
b. Equivalent to
c. Greater than
d. Twice

The correct **answer** is a

104. What is the object of trellis coding? a. To narrow the bandwidth
b. To increase the data rate
c. To reduce the error rate
d. To simplify modulation The correct **answer** is c

105. A modulator converts a(n)_____ signal to a(n) _____ signal. a. Digital; analog
b. Analog; digital
c. PSK; FSK
d. FSK; PSK

The correct **answer** is a

106. A 56K modem can download at a rate of _____ Kbps and upload at a rate of _____ Kbps. a. 56.6; 33.6
b. 56.6; 56.6
c. 33.6; 33.6
d. 33.6; 56.6

The correct **answer** is a

107. For FSK, as the difference between the two carrier frequencies increases, the bandwidth _____. a. Remains the same
b. Decreases

c. Increases
d. Halves
The correct **answer** is c
108. The bit rate always equals the baud rate in which type of signal? a. FSK
b. QAM
c. 4-PSK
d. All the above The correct **answer** is a
109. Which ITU-T modem standard uses trellis coding? a. V.32
b. V.33
c. V.34
d. (a) and (b) The correct **answer** is a
110. In trellis coding the number of data bits is _____ the number of transmitted bits. a. Less than
b. More than
c. Equal to
d. Double that of
The correct **answer** is a
Chapter 6: Switching
111. Which multiplexing technique transmits digital signals? a. WDM
b. FDM
c. TDM
d. None of the above The correct **answer** is c
112. Which multiplexing technique shifts each signal to a different carrier frequency?
a. TDM
b. FDM
c. Both (a) and (b)
d. None of the above
The correct **answer** is b
113. In TDM, for n signal sources of the same data rate, each frame contains _____ slots. a. 0 to n
b. n
c. n + 1
d. n - 1

The correct **answer** is b

114. In TDM, the transmission rate of the multiplexed path is usually _____ the sum of the transmission rates of the signal sources.

a. 1 less than
b. Greater than
c. Less than
d. Equal to

The correct **answer** is b

115. DS-1 through DS-4 are _____ while T-1 through T-4 are _____.

a. Services; signals
b. Services; lines
c. Services; multiplexers
d. Multiplexers; signals The correct **answer** is b

116. The sharing of a medium and its link by two or more devices is called _____. a. Modulation
b. Encoding
c. Multiplexing
d. Line discipline The correct **answer** is c

117. In AT&T's FDM hierarchy, the bandwidth of each group type can be found by multiplying _____ and adding extra bandwidth for guard bands.

a. The sampling rate by 4000 Hz
b. The number of voice channels by 4000 Hz
c. The number of voice channels by 8 bits/sample
d. The sampling rate by 8 bits/sample The correct **answer** is b

118. Guard bands increase the bandwidth for _____. a. TDM
b. FDM
c. Both (a) and (b)
d. None of the above The correct **answer** is b

119. Which multiplexing technique transmits analog signals? a. FDM
b. TDM
c. WDM
d. (a) and (c) The correct **answer** is d

120. In a T-1 line, _____ interleaving occurs. a. Bit
b. Byte

c. DS-0
d. Switch
The correct **answer** is b
121. Which multiplexing technique involves signals composed of light beams? a. WDM
b. FDM
c. TDM
d. None of the above The correct **answer** is a
Chapter 7: Transmission Media
122. The VLF and LF bands use _____ propagation for communications. a. Space
b. Ground
c. Sky
d. Line of sight The correct **answer** is b
123. Category 1 UTP cable is most often used in _____ networks.
a. Infrared
b. Telephone
c. Fast Ethernet
d. Traditional Ethernet The correct **answer** is b
124. BNC connectors are used by _____ cables. a. Fiber-optic
b. UTP
c. STP
d. Coaxial
The correct **answer** is d
125. Which of the following is not a guided medium? a. Twisted-pair cable
b. Fiber-optic cable
c. Atmosphere
d. Coaxial cable The correct **answer** is c
126. In an environment with many high-voltage devices, the best transmission medium would be _____. a. Twisted-pair cable
b. Coaxial cable
c. The atmosphere
d. Optical fiber The correct **answer** is d

127. _____ cable consists of an inner copper core and a second conducting outer sheath. a. Coaxial

b. Twisted-pair

c. Fiber-optic

d. Shielded twisted-pair The correct **answer** is a

128. In fiber optics, the signal source is _____ waves. a. Very low-frequency

b. Light

c. Radio

d. Infrared

The correct **answer** is b

129. Smoke signals are an example of communication through _____.

a. A guided medium

b. A refractive medium

c. An unguided medium

d. A small or large medium The correct **answer** is c

130. Which of the following primarily uses guided media? a. Cellular telephone system

b. Satellite communications

c. Local telephone system

d. Radio broadcasting The correct **answer** is c

131. What is the major factor that makes coaxial cable less susceptible to noise than twisted-pair cable? a. Outer conductor

b. Inner conductor

c. Diameter of cable

d. Insulating material The correct **answer** is a

132. The RG number gives us information about _____. a. Optical fibers

b. Twisted pairs

c. Coaxial cables

d. All the above The correct **answer** is c

133. Transmission media are usually categorized as _____.

a. Guided or unguided

b. Fixed or unfixed

c. Determinate or indeterminate

d. Metallic or nonmetallic The correct **answer** is a 134. The _____ is an association that sponsors the use of infrared waves. a. EIA
b. IrDA
c. FCC
d. PUD

The correct **answer** is b

135. In an optical fiber, the inner core is _____ the cladding.
a. Less dense than
b. Denser than
c. The same density as
d. Another name for The correct **answer** is b

136. The inner core of an optical fiber is _____ in composition. a. Copper
b. Bimetallic
c. Glass or plastic
d. Liquid

The correct **answer** is c

137. When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____ occurs. a. Refraction
b. Reflection
c. Incidence
d. Criticism

The correct **answer** is b

138. In _____ propagation, the beam of propagated light is almost horizontal, and the low-density core has a small diameter compared to the cores of the other propagation modes. a. Single-mode
b. Multimode step-index

c. Multimode graded-index
d. Multimode single-index The correct **answer** is a

139. _____ is the propagation method subject to the greatest distortion. a. Single-mode
b. Multimode step-index
c. Multimode graded-index

d. Multimode single-index The correct **answer** is b

140. In _____ propagation, the core is of varying densities.

a. Single-mode
b. Multimode step-index
c. Multimode graded-index
d. Multimode single-index The correct **answer** is c

141. When we talk about unguided media, usually we are referring to _____. a. Metallic wires

b. Nonmetallic wires
c. The air
d. None of the above The correct **answer** is c

142. Transmission media are closest to the _____ layer. a. Application

b. Physical
c. Network
d. Transport

The correct **answer** is b

143. Radio wave and microwave frequencies range from _____.

a. 3 to 300 KHz
b. 300 KHz to 3 GHz
c. 3 KHz to 300 GHz
d. 3 KHz to 3000 GHz The correct **answer** is c

144. Optical fibers, unlike wire media, are highly resistant to _____.

a. High-frequency transmission
b. Low-frequency transmission
c. Refraction
d. Electromagnetic interference The correct **answer** is d

145. In _____ propagation, low-frequency radio waves hug the earth. a. Space

b. Ground
c. Sky
d. Line of sight The correct **answer** is b

146. When the angle of incidence is _____ the critical angle, the light beam bends along the interface. a. More than

b. Less than
c. Equal to

d. None of the above The correct **answer** is c

147. A parabolic dish antenna is a(n) _____ antenna. a. Omnidirectional

b. Bidirectional
c. Horn
d. Unidirectional The correct **answer** is d

Chapter 8 : Telephone, Cable, and Satellite Networks 148. The telephone service handled between two LATAs is called _____. a. An ILEC
b. An IXC
c. A CLEC
d. A POP

The correct **answer** is b

149. How many crosspoints are needed in a single-stage switch with 40 inputs and 50 outputs? a. 2000
b. 90
c. 50
d. 40

The correct **answer** is a

150. The _____ is a device that connects n inputs to m outputs.
a. Crossbar
b. Crosspoint
c. Modem
d. RAM

The correct **answer** is a

151. The established telephone company that provided services in a LATA before 1966 and owns the cabling system is called _____.
a. A CLEC
b. An IXC
c. An ILEC
d. A POP

The correct **answer** is c

152. In a crossbar with 1000 crosspoints, approximately how many are in use at any time? a. 100

b. 250
c. 500
d. 1000
The correct **answer** is b
153. The _____ of a TSI controls the order of delivery of slot values that are stored in RAM. a. Crossbar
b. Crosspoint
c. Transceiver
d. Control unit The correct **answer** is d
154. Which of the following is a time-division switch? a. TSI
b. TDM bus
c. Crosspoint
d. (a) and (b)
The correct **answer** is d
155. In a time-division switch, a _____ governs the destination of a packet stored in RAM. a. Control unit
b. TDM bus
c. Crosspoint
d. Crossbar

The correct **answer** is a
156. A telephone network is an example of a _____ network.
a. Circuit-switched
b. Packet-switched
c. Message-switched
d. None of the above The correct **answer** is a
157. The local loop has _____ cable that connects the subscriber telephone to the nearest end office. a. Coaxial
b. Fiber-optic
c. Twisted-pair
d. (b) and (c) The correct **answer** is c
158. Trunks are transmission media such as _____ that handle the telephone communication between offices. a. Twisted-pair cable
b. Fiber-optic cable
c. Satellite links

d. (b) and (c) The correct **answer** is d

159. A new telephone company that provides services in a LATA after 1966 is called _____. a. An ILEC

b. An IXC

c. A POP

d. A CLEC

The correct **answer** is d

160. If the end office receives two bursts of analog signals with frequencies of 697 and 1477 Hz, then the number _____ has been punched. a. 1

b. 2

c. 3

d. 4

The correct **answer** is c

161. In _____ circuit switching, delivery of data is delayed because data must be stored and retrieved from RAM.

a. Time-division

b. Space-division

c. Virtual

d. Packet

The correct **answer** is a

162. Data from a computer are _____; the local loop handles _____ signals. a. Digital; digital

b. Digital; analog

c. Analog; analog

d. Analog; digital The correct **answer** is b

163. To create a _____, combine crossbar switches in stages. a. TSI

b. Multistage switch

c. Crosspoint

d. Packet switch The correct **answer** is b

164. A traditional telephone line has a bandwidth of _____.

a. 2000 Hz

b. 4000 Hz

c. 2000 MHz
d. 4000 MHz
The correct **answer** is b
Chapter 9 : Flow and Error Control
165. SONET is a standard for _____ networks. a. Twisted-pair cable
b. Fiber-optic cable
c. Coaxial cable
d. Ethernet
The correct **answer** is b
166. _____ limit the bandwidth of the local loop to 4 KHz. a. Fiber nodes
b. Repeaters
c. Filters
d. Hubs
The correct **answer** is c
167. The actual bit rate of ADSL downstream data is _____.
a. 6 to 30 Kbps
b. 64 Kbps to 1 Mbps
c. 500 Kbps to 8 Mbps
d. 31 Kbps to 255 Mbps The correct **answer** is c
168. _____ is a device at the telephone company site that can packetize data to be sent to the ISP server. a. A filter
b. A splitter
c. A DSLAM
d. An ADSL modem The correct **answer** is c
169. The standard for data transmission over an HFC network is called _____. a. DOCSIS
b. CMTS
c. MCNS
d. ADSL
The correct **answer** is a
170. DMT is a modulation technique that combines elements of _____ and _____. a. FDM; TDM
b. QDM; QAM
c. PSK; FSK

d. FDM; QAM
The correct **answer** is d
171. The _____ is an HFC network device installed inside the distribution hub that receives data from the Internet and passes them to the combiner.
a. DOCSIS
b. MCNS
c. CM
d. CMTS
The correct **answer** is d
172. HDSL encodes data using _____. a. 6B/8T
b. 4B/5B
c. 2B1Q
d. 1B2Q
The correct **answer** is c

Your **answer** is a
173. _____ encoded signal is more susceptible to attenuation than _____ encoded signal. a. An AMI; a 2B1Q
b. An AMI; a 2B2Q
c. A 2B1Q; an AMI
d. None of the above The correct **answer** is a
174. Another name for the cable TV office is the _____. a. Fiber node
b. Combiner
c. Head end
d. Splitter
The correct **answer** is c
175. A traditional cable TV network transmits signals _____.
a. Upstream and downstream
b. Upstream
c. Downstream
d. None of the above The correct **answer** is c
176. _____ was designed as an alternative to the T-1 line.
a. VDSL
b. SDSL
c. HDSL

d. ADSL

The correct **answer** is c

177. The synchronous payload envelope of an STS-1 frame contains _____. a. Pointers

b. User data

c. Overhead

d. (b) and (c) The correct **answer** is d

178. _____ has a higher transmission rate in the downstream direction than in the upstream direction. a. VDSL

b. ADSL

c. SDSL

d. (a) and (b) The correct **answer** is d

179. An HFC network uses _____ as the medium from the switch to the fiber node. a. UTP

b. STP

c. Optical fiber

d. Coaxial cable The correct **answer** is c

180. In an HFC network, the distribution hub handles the _____ of signals. a. Modulation

b. Distribution

c. Splitting

d. (a) and (b) The correct **answer** is d 181. A TV channel in an HFC network needs a _____-MHz bandwidth. a. 369

b. 6

c. 100

d. 250

The correct **answer** is b

182. _____ data go from the subscriber to the Internet. a. Downstream

b. Upstream

c. Midstream

d. None of the above The correct **answer** is b

183. In an HFC network, the upstream data are modulated using the _____ modulation technique. a. PCM

b. QAM

c. QPSK
d. ASK
The correct **answer** is b
184. _____ is suitable for businesses that require comparable upstream and downstream data rates. a. SDSL
b. VDSL
c. ADSL
d. (a) and (b) The correct **answer** is a
185. SONET is an acronym for _____ Network. a. Standard Optical
b. Symmetric Open
c. Synchronous Optical
d. Standard Open The correct **answer** is c
186. The largest portion of the bandwidth for ADSL carries _____.
a. Voice communication
b. Downstream data
c. Upstream data
d. Control data
The correct **answer** is b
187. In a SONET system, _____ can remove signals from a path.
a. An add/drop multiplexer
b. A repeater
c. An STS multiplier
d. A regenerator The correct **answer** is a
Chapter 10 : Access Method
188. Which of the following best describes a single-bit error? a. A single bit is inverted.
b. A single bit is inverted per transmission.
c. A single bit is inverted per data unit.
d. Any of the above The correct **answer** is c
189. Which error detection method uses ones complement arithmetic?
a. Simple parity check
b. Checksum
c. Two-dimensional parity check
d. CRC

The correct **answer** is b

190. Which error detection method consists of just one redundant bit per data unit?

a. Two-dimensional parity check
b. CRC
c. Simple parity check
d. Checksum

The correct **answer** is c

191. Which error detection method involves polynomials? a. CRC
b. Simple parity check
c. Two-dimensional parity check
d. Checksum

The correct **answer** is a

192. If the ASCII character G is sent and the character D is received, what type of error is this? a. Single-bit
b. Multiple-bit
c. Burst
d. Recoverable The correct **answer** is c

193. If the ASCII character H is sent and the character I is received, what type of error is this?

a. Burst
b. Recoverable
c. Single-bit
d. Multiple-bit The correct **answer** is c

194. In cyclic redundancy checking, what is the CRC? a. The remainder
b. The divisor
c. The quotient
d. The dividend The correct **answer** is a

195. Which error detection method involves the use of parity bits?

a. Simple parity check
b. Two-dimensional parity check
c. CRC
d. (a) and (b) The correct **answer** is d

196. In cyclic redundancy checking, the divisor is _____ the CRC.

a. The same size as
b. 1 bit more than
c. 1 bit less than
d. 2 bits more than The correct **answer** is b

197. If the data unit is 111111, the divisor 1010, and the remainder 110, what is the dividend at the receiver? a. 111111011

b. 1010110
c. 111111110
d. 110111111 The correct **answer** is c

198. Which error detection method consists of a parity bit for each data unit as well as an entire data unit of parity bits?

a. Simple parity check
b. Checksum
c. Two-dimensional parity check
d. CRC

The correct **answer** is c

199. If the data unit is 111111 and the divisor 1010, what is the dividend at the transmitter? a. 1111110000

b. 111111000
c. 111111
d. 1111111010 The correct **answer** is b

200. If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is _____. a. Indeterminate

b. 42
c. Even
d. Odd

The correct **answer** is d

201. In CRC there is no error if the remainder at the receiver is _____. a. Nonzero

b. The quotient at the sender
c. Equal to the remainder at the sender
d. Zero

The correct **answer** is d

202. At the CRC generator, _____ added to the data unit after the division process. a. 0s are
b. 1s are
c. The CRC remainder is
d. The polynomial is The correct **answer** is c
203. The sum of the checksum and data at the receiver is _____ if there are no errors. a. -0
b. +0
c. The complement of the checksum
d. The complement of the data The correct **answer** is a
204. In CRC the quotient at the sender _____. a. Becomes the dividend at the receiver
b. Becomes the divisor at the receiver
c. Is the remainder
d. Is discarded The correct **answer** is d
205. The Hamming code is a method of _____. a. Error detection
b. Error correction
c. Error encapsulation
d. (a) and (b) The correct **answer** is d
206. At the CRC checker, _____ means that the data unit is damaged.
a. A string of alternating 1s and 0s
b. A nonzero remainder
c. A string of 0s
d. A string of 1s The correct **answer** is b
207. Which error detection method can detect a single-bit error?
a. Simple parity check
b. Two-dimensional parity check
c. CRC
d. All the above The correct **answer** is d

208. Which error detection method can detect a burst error? a. The parity check
b. Two-dimensional parity check
c. CRC

d. (b) and (c) The correct **answer** is d

209. At the CRC generator, _____ added to the data unit before the division process.

a. A polynomial is
b. A CRC remainder is
c. 0s are
d. 1s are

The correct **answer** is c

Chapter 11 : Wired Local Area Networks 210. HDLC is an acronym for _____. a. High-duplex line communication

b. Half-duplex digital link combination
c. High-level data link control
d. Host double-level circuit The correct **answer** is c

211. Flow control is needed to prevent _____. a. Overflow of the sender buffer

b. Overflow of the receiver buffer
c. Bit errors
d. Collision between sender and receiver The correct **answer** is b

212. In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers? a. 1 to 63

b. 1 to 64
c. 0 to 63
d. 0 to 64

The correct **answer** is c

213. For a sliding window of size n - 1 (n sequence numbers), there can be a maximum of _____ frames sent but unacknowledged. a. 0

b. n
c. n - 1
d. n + 1

The correct **answer** is b

214. When data and acknowledgment are sent on the same frame, this is called _____. a. Backpacking

b. Piggypacking
c. Piggybacking

d. A good idea The correct **answer** is c

215. In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted. a. Go-Back-N

b. Stop-and-Wait

c. Selective Repeat

d. (a) and (b) The correct **answer** is a 216. ARQ stands for _____. a. Automatic repeat request

b. Automatic retransmission request

c. Acknowledge repeat request

d. Automatic repeat quantization The correct **answer** is a

217. In Go-Back-N ARQ, if frames 4, 5, and 6 are received successfully, the receiver may send an ACK _____ to the sender. a. 5

b. 6

c. 7

d. Any of the above The correct **answer** is d

218. The shortest frame in HDLC protocol is usually the _____ frame. a. Information

b. Management

c. Supervisory

d. None of the above The correct **answer** is c 219. The address field of a frame in HDLC protocol contains the address of the _____ station. a. Primary

b. Secondary

c. Tertiary

d. (a) or (b)

The correct **answer** is b

220. The HDLC _____ field defines the beginning and end of a frame. a. Address

b. Control

c. Flag

d. FCS

The correct **answer** is c

221. A timer is set when _____ is (are) sent out. a. An ACK

b. A NAK

c. A data frame
d. All the above The correct **answer** is c
222. For Stop-and-Wait ARQ, for n data packets sent, _____ acknowledgments are needed. a. n - 1
b. n + 1
c. n
d. 2n
The correct **answer** is c
223. What is present in all HDLC control fields? a. N(R)
b. N(S)
c. Code bits
d. P/F bit
The correct **answer** is d
Chapter 12 : Wireless Local Area Networks
224. According to the PPP transition state diagram, options are negotiated in the _____ state. a. Networking
b. Terminating
c. Establishing
d. Authenticating The correct **answer** is c

225. According to the PPP transition state diagram, verification of user identification occurs in the _____ state.
a. Networking
b. Terminating
c. Establishing
d. Authenticating The correct **answer** is d
226. PAP requires _____ and _____ from the user. a. A password; a calculated value
b. Authentication identification; a calculated value
c. Authentication identification; a password
d. A challenge value; a password The correct **answer** is c
227. According to the PPP transition state diagram, the link is disconnected in the _____ state. a. Networking
b. Terminating
c. Establishing

d. Authenticating The correct **answer** is b

228. In the PPP frame, the _____ field defines the contents of the data field. a. FCS

b. Flag

c. Control

d. Protocol

The correct **answer** is d

229. According to the PPP transition state diagram, exchange of user control and data packets occurs in the _____ state. a. Networking

b. Terminating

c. Establishing

d. Authenticating The correct **answer** is a

230. _____, an (a)_____ protocol, establishes and terminates a network layer connection for IP packets. a. CHAP; NCP

b. IPCP; NCP

c. NCP; IPCP

d. SLIP; PPP

The correct **answer** is b

231. In the PPP frame, the _____ field is similar to that of the U-frame in HDLC. a. Flag

b. Protocol

c. FCS

d. Control

The correct **answer** is d

232. In the PPP frame, the _____ field has a value of 11111111 to indicate the broadcast address of HDLC. a. Protocol

b. Address

c. Control

d. FCS

The correct **answer** is b

233. What is the purpose of LCP packets? a. Configuration

b. Termination

c. Option negotiation

d. All the above

The correct **answer** is d

234. _____ is a three-way handshake for user verification.

a. PPP

b. CHAP

c. PAP

d. (b) and (c) The correct **answer** is b 235. A PAP packet and a CHAP packet can be distinguished by the value of the _____ field of the PPP frame. a. Protocol

b. FCS

c. Address

d. Control

The correct **answer** is d

236. In the PPP frame, the _____ field is for error control. a. FCS

b. Flag

c. Control

d. Protocol

The correct **answer** is a

237. CHAP authentication, the user takes the system's _____ and its own _____ to create a result that is then sent to the system.

a. Authentication identification; password

b. Password; authentication identification

c. Challenge value; password

d. Password; challenge value The correct **answer** is c

238. If an FDMA network has eight stations, the medium bandwidth has _____ bands. a. 1

b. 2

c. 8

d. 16

The correct **answer** is c

239. In the _____ random-access method there is no collision.

a. CSMA/CD

b. CSMA/CA

c. ALOHA

d. Token-passing The correct **answer** is b

240. In the 1-persistent approach, when a station finds an idle line, it _____.

a. Sends immediately
b. Waits 0.1 s before sending
c. Waits 1 s before sending
d. Waits a time equal to 1 - p before sending The correct **answer** is a

241. _____ requires one primary station and one or more secondary stations. a. Token ring
b. Reservation
c. Polling
d. CSMA

The correct **answer** is c

242. In the p-persistent approach, when a station finds an idle line, it _____.

a. Sends immediately
b. Waits 1 s before sending

c. Sends with probability 1 - p
d. Sends with probability p The correct **answer** is d

243. A network using the CSMA random-access method with p equal to 0.25 will send _____ percent of the time after accessing an idle line. a. 50
b. 75
c. 100
d. 25

The correct **answer** is d

244. The 1-persistent approach can be considered a special case of the p-persistent approach with p equal to _____.

a. 1.0
b. 2.0
c. 0.1
d. 0.5

The correct **answer** is a

245. _____ is a random-access protocol. a. FDMA
b. CDMA
c. MA

d. Polling
The correct **answer** is c
246. In the reservation access method, if there are 10 stations on a network, then there are _____ reservation minislots in the reservation frame. a. 10
b. 11
c. 5
d. 9
The correct **answer** is a
247. A Walsh table for 16 stations has a chip sequence of _____ chips. a. 16
b. 32
c. 4
d. 8
The correct **answer** is a
248. _____ is a controlled-access protocol. a. FDMA
b. TDMA
c. CSMA
d. Reservation The correct **answer** is d
249. _____ is (are) a channelization protocol. a. FDMA
b. TDMA
c. CDMA
d. All the above The correct **answer** is d
250. _____ is the access protocol used by traditional Ethernet.
a. Token ring
b. CSMA
c. CSMA/CD
d. CSMA/CA
The correct **answer** is c

251. The most primitive random access method is _____. a. Channelization
b. ALOHA
c. CSMA
d. Token passing The correct **answer** is b

252. When a collision is detected in a network using CSMA/CD, _____.

a. The frame is immediately resent
b. The backoff value is decremented by 1
c. A jam signal is sent by the station
d. The backoff value is set to 0 The correct **answer** is c

253. In the _____ random-access method, stations do not sense the medium. a. CSMA/CA

b. ALOHA
c. CSMA/CD
d. Ethernet

The correct **answer** is b

254. When a primary device asks a secondary device if it has data to send, this is called _____. a. Backing off

b. Polling
c. Selecting
d. Reserving

The correct **answer** is b

255. If a TDMA network has eight stations, the medium bandwidth has _____ bands. a. 1

b. 2
c. 8
d. 16

The correct **answer** is a

256. If a CDMA network has eight stations, the medium bandwidth has _____ bands. a. 1

b. 2
c. 8
d. 16

The correct **answer** is a

257. If an Ethernet destination address is 08-07-06-05-4433, then this is a _____ address. a. Broadcast

b. Unicast
c. Multicast
d. Any of the above The correct **answer** is b

258. What is the hexadecimal equivalent of the Ethernet address 01011010 00010001 01010101 00011000 10101010 00001111?

a. 5A-11-55-18-AA-0F
b. 5A-88-AA-18-55-F0
c. 5A-81-BA-81-AA-0F
d. 5A-18-5A-18-55-0F The correct **answer** is a

259. Which of the following could not be an Ethernet source address?

a. 8A-7B-6C-DE-10-00
b. 8B-32-21-21-4D-34
c. EE-AA-C1-23-45-32
d. 46-56-21-1A-DE-F4

The correct **answer** is b

260. What is the efficiency of 4B/5B block encoding? a. 60 percent
b. 80 percent
c. 20 percent
d. 40 percent The correct **answer** is b

261. Which of the following could not be an Ethernet unicast destination?

a. 44-AA-C1-23-45-32
b. 46-56-21-1A-DE-F4
c. 48-32-21-21-4D-34
d. 43-7B-6C-DE-10-00 The correct **answer** is d

262. What is the efficiency of 8B/10B encoding? a. 80 percent
b. 20 percent
c. 40 percent
d. 60 percent The correct **answer** is a

263. A 10-station Ethernet LAN uses a _____-port bridge if the effective average data rate for each station is 2 Mbps. a. 10
b. 1
c. 2
d. 5

The correct **answer** is d

264. A _____-station Ethernet LAN uses a four-port bridge. Each station has an effective average data rate of 1.25 Mbps.

a. 160

b. 80
c. 40
d. 32
The correct **answer** is d
265. An 80-station traditional Ethernet is divided into four collision domains. This means that a maximum of _____ stations contend for medium access at any one time. a. 20
b. 76
c. 80
d. 320
The correct **answer** is a
266. If an Ethernet destination address is 07-01-02-03-0405, then this is a _____ address. a. Unicast
b. Broadcast
c. Multicast
d. Any of the above The correct **answer** is c
267. What is the efficiency of a frame in half-duplex Gigabit Ethernet carrying 46 bytes of data?
a. 97 percent
b. 70 percent
c. 56 percent
d. 12 percent
The correct **answer** is b
268. Which of the following could not be an Ethernet multicast destination?
a. B7-7B-6C-DE-10-00
b. 7C-56-21-1A-DE-F4

c. 7B-AA-C1-23-45-32
d. 83-32-21-21-4D-34 The correct **answer** is b
269. Which of the following is a four-wire Gigabit Ethernet implementation? a. 1000Base-SX
b. 1000Base-LX
c. 1000Base-T
d. 1000Base-CX The correct **answer** is c

270. Forty stations are on an Ethernet LAN. A 10-port bridge segments the LAN. What is the effective average data rate of each station?

a. 1.0 Mbps
b. 2.5 Mbps
c. 2.0 Mbps
d. 5.0 Mbps

The correct **answer** is b

271. A wireless LAN using FHSS hops 10 times per cycle. If the bandwidth of the original signal is 10 MHz and 2 GHz is the lowest frequency, the highest frequency of the system is _____ GHz.

a. 1.0
b. 2.0
c. 2.1
d. 3.0

The correct **answer** is c

272. An FHSS wireless LAN has a spread spectrum of 1 GHz. The bandwidth of the original signal is 250 MHz, and there are _____ hops per cycle. a. 4

b. 3
c. 2
d. 1

The correct **answer** is a

273. A wireless LAN using FHSS hops 10 times per cycle. If the bandwidth of the original signal is 10 MHz, the spread spectrum is _____ MHz. a. 1000

b. 10,000
c. 10
d. 100

The correct **answer** is d

274. A wireless LAN using DSSS with an 8-bit chip code needs _____ MHz for sending data that originally required a 10-MHz bandwidth. a. 20

b. 80
c. 2
d. 8

The correct **answer** is b

275. A wireless LAN using DSSS with _____-bit chip code needs 320 MHz for sending data that originally required a
20-MHz bandwidth. a. A 1
b. A 1
c. A 1

d. An 8
The correct **answer** is b
276. A wireless LAN using DSSS with a 4-bit chip code needs 10 MHz for sending data that originally required a _____MHz bandwidth. a. 20

b. 25
c. 40
d. 2.5
The correct **answer** is d
277. In an ESS the _____ station is not mobile. a. BSS
b. AP
c. Server
d. None of the above The correct **answer** is b
278. In an ESS the _____ stations are part of a wired LAN.
a. BSS
b. AP
c. Server
d. All the above The correct **answer** is b
279. A station with _____ mobility is either stationary or moving only inside a BSS. a. No-transition
b. BSS
c. ESS
d. (a) and (b) The correct **answer** is a
280. _____ combine to form a scatternet. a. APs
b. Piconets
c. BSSs
d. ESSs
The correct **answer** is b
281. Bluetooth uses _____ in the physical layer. a. DSSS

b. DHSS
c. FHSS
d. OFDM
The correct **answer** is c
282. A _____ frame usually precedes a CTS frame. a. SIFS
b. RTS
c. DIFS
d. Any of the above The correct **answer** is b
283. A station with _____ mobility can move from one BSS to another. a. No-transition
b. ESS-transition
c. BSS-transition
d. (b) and (c) The correct **answer** is c
284. A station with _____ mobility can move from one ESS to another. a. No-transition
b. ESS-transition
c. BSS-transition
d. (b) and (c) The correct **answer** is b
285. A _____ frame usually precedes an RTS frame.
a.
DIFS
b. CIFS
c. CTS
d. None of the above The correct **answer** is d
286. Wireless transmission is _____ prone to error than/as wired transmission. a. Less
b. More
c. Half as
d. None of the above The correct **answer** is b
287. Which MAC sublayer does IEEE 802.11 define? a. LLC
b. PCF
c. DCF
d. (b) and (c) The correct **answer** is d
288. What is the basic access method for wireless LANs as defined by IEEE 802.11? a. LLC

b. PCF
c. DCF
d. BFD
The correct **answer** is c
289. The access method for wireless LANs as defined by IEEE 802.11 is based on _____. a. Token passing
b. CSMA
c. CSMA/CD
d. CSMA/CA
The correct **answer** is d
290. FHSS, DSSS, and OFDM are _____ layer specifications. a. Data link
b. Network
c. Physical
d. Transport
The correct **answer** is c
291. Stations do not sense the medium during _____ time.
a. SIFS
b. NAV
c. RTS
d. CTS
The correct **answer** is b
292. A Bluetooth frame needs _____ μs for hopping and control mechanisms. a. 3
b. 625
c. 259
d. A multiple of 259
The correct **answer** is c
293. In the _____ method, the sender hops from frequency to frequency in a specific order. a. DSSS
b. FHSS
c. OFDM
d. HR-DSSS
The correct **answer** is b

294. A wireless LAN uses _____ frames for acknowledgment. a. Management

b. Data

c. Control

d. None of the above The correct **answer** is c

295. A wireless LAN uses _____ frames for the initial communication between stations and the access points. a. Control

b. Data

c. Management

d. None of the above The correct **answer** is c

296. A Bluetooth network can have _____ master(s). a. One

b. Two

c. Three

d. Eight

The correct **answer** is a

297. A bridge forwards or filters a frame by comparing the information in its address table to the frame's _____. a. Source node's physical address

b. Layer 2 destination address

c. Layer 2 source address

d. Layer 3 destination address The correct **answer** is b

298. Repeaters function in the _____ layer(s). a. Network

b. Physical (MAC)

c. Data link

d. (a) and (b) The correct **answer** is b

299. A _____ is actually a multiport repeater. a. Hub

b. Bridge

c. Router

d. VLAN

The correct **answer** is a

300. A repeater takes a weakened or corrupted signal and _____ it.

a. Resamples

b. Reroutes

c. Amplifies

d. Regenerates The correct **answer** is d

301. A bridge has access to the _____ address of a station on the same network. a. Network

b. Service access point

c. Physical (MAC)

d. All the above The correct **answer** is c

302. The bridge with the least-cost path between the LAN and the root bridge is called the _____ bridge. a. Forwarding

b. Designated

c. Blocking

d. (a) and (b) The correct **answer** is b

303. A system with redundant bridges might have a problem with _____ in the system. a. Filters

b. Spanning trees

c. Loops

d. All the above The correct **answer** is c

304. Bridges function in the _____ layer(s). a. Physical (MAC)

b. Data link

c. Network

d. (a) and (b) The correct **answer** is d

305. In a VLAN, stations are separated into groups by _____.

a. Software methods

b. Location

c. Physical methods

d. Switches

The correct **answer** is a 306. A bridge can _____. a. Filter a frame

b. Forward a frame

c. Extend a LAN

d. Do all the above

The correct **answer** is d

307. A _____ bridge has the smallest ID. a. Designated

b. Forwarding

c. Blocking
d. Root
The correct **answer** is d
308. A bridge never forwards frames out of the _____ port.
a. Root
b. Designated
c. Blocking
d. Forwarding
The correct **answer** is c
309. Which type of bridge builds and updates its tables from address information on frames? a. Transparent
b. Simple
c. (a) and (b)
d. None of the above The correct **answer** is a
310. VLAN technology divides a LAN into _____ groups. a. Multiplexed
b. Framed
c. Physical
d. Logical
The correct **answer** is d
311. Which of the following is a connecting device? a. Bridge
b. Repeater
c. Hub
d. All the above

The correct **answer** is d
312. Which station characteristic can be used to group stations into a VLAN? a. Port numbers
b. MAC addresses
c. IP addresses
d. All the above The correct **answer** is d
313. _____ is a first-generation cellular phone system. a. GSM
b. IS-95
c. AMPS
d. D-AMPS
The correct **answer** is c

314. AMPS uses _____ for modulation. a. FM
b. FSK
c. PM
d. (a) and (b) The correct **answer** is d
315. _____ separates the AMPS voice channels. a. CDMA
b. TDMA
c. FDMA
d. (b) and (c) The correct **answer** is c
316. _____ is a cellular telephone system popular in Europe. a. GSM
b. D-AMPS
c. IS-95
d. AMPS
The correct **answer** is a
317. D-AMPS uses _____ for multiplexing. a. CDMA
b. TDMA
c. FDMA
d. (b) and (c) The correct **answer** is d
318. GSM uses _____ for multiplexing. a. CDMA
b. TDMA
c. FDMA
d. (b) and (c) The correct **answer** is d
319. DSSS is used by the _____ cellular phone system. a. AMPS
b. IS-95
c. D-AMPS
d. GSM
The correct **answer** is b
320. _____ base stations use GPS for synchronization. a. GSM
b. IS-95
c. AMPS

d. D-AMPS
The correct **answer** is b
321. _____ will have 288 satellites in 12 polar orbits. a. Teledesic
b. Globalstar

c. Iridium
d. GPS
The correct **answer** is a
322. IS-95 has a frequency reuse factor of _____. a. 7
b. 95
c. 1
d. 5
The correct **answer** is c
323. The path that a satellite makes around the world is called _____. a. An orbit
b. A period
c. A footprint
d. An uplink
The correct **answer** is a
324. A GEO satellite has _____ orbit. a. A polar
b. An inclined
c. An equilateral
d. An equatorial
The correct **answer** is d
325. Which orbit has the highest altitude? a. LEO
b. GEO
c. MEO
d. HEO
The correct **answer** is b
326. _____ is a second-generation cellular phone system. a. D-AMPS
b. GSM
c. IS-95
d. All the above
The correct **answer** is d
327. A _____ is a computerized center that is responsible for connecting calls, recording call information, and billing. a. Cell
b. Mobile station
c. Base station
d. Mobile switching center The correct **answer** is d
328. _____ has 48 satellites in six polar orbits. a. Iridium

b. Teledesic
c. Globalstar
d. GPS
The correct **answer** is c
329. The signal from a satellite is aimed at a specific area called the _____. a. Orbit
b. Period
c. Footprint
d. Uplink
The correct **answer** is c
330. In _____, a mobile station always communicates with just one base station. a. Roaming
b. A roaming handoff
c. A hard handoff
d. A soft handoff The correct **answer** is c
331. MEO satellites orbit _____ Van Allen belts. a. In the
b. Above both
c. Below both
d. Between the The correct **answer** is d
332. _____ is often used for navigation purposes. a. GPS
b. AMPS
c. IS-95
d. Iridium
The correct **answer** is a
333. An LEO satellite has _____ orbit. a. An equatorial
b. A polar
c. An inclined
d. All the above The correct **answer** is b
334. Teledesic is a _____ LEO satellite system. a. Passband
b. Broadband
c. Little
d. Big
The correct **answer** is b
335. _____ has 66 satellites in six LEOs. a. Globalstar

b. Teledesic
c. GPS
d. Iridium
The correct **answer** is d
336. Transmission from the Earth to the satellite is called the _____.
a. Downlink
b. Uplink
c. Footlink
d. Up print
The correct **answer** is b
337. The _____ is not used for voice communication. a. GPS
b. Iridium system
c. IS-95 system
d. Globalstar system The correct **answer** is a
338. _____ is a Frame Relay option that transmits voice through the network. a. LMI
b. FRAD
c. VOFR
d. DLCI
The correct **answer** is c
339. Frame Relay provides _____ connections. a. PVC
b. SVC
c. (a) and (b)
d. None of the above The correct **answer** is c
340. Routing and switching in Frame Relay are performed by the _____ layer. a. Physical
b. Network
c. Data link
d. (b) and (c) The correct **answer** is c
341. Frame Relay is unsuitable for _____ due to possible delays in transmission resulting from variable frame sizes. a. File transfers
b. Real-time video
c. Fixed-rate data communication
d. All the above The correct **answer** is b
342. The Frame Relay address field is _____ in length. a. 4 bytes

b. 2 bytes
c. 3 bytes
d. Any of the above The correct **answer** is d

343. Because ATM _____, which means that cells follow the same path, the cells do not usually arrive out of order. a. Is asynchronous
b. Uses virtual circuit routing
c. Is multiplexed
d. Is a network The correct **answer** is b 344. _____ is a protocol to control and manage interfaces in Frame Relay networks. a. FRAD
b. DLCI
c. LMI
d. VOFR

The correct **answer** is c

345. Frame Relay operates in the _____. a. Physical and data link layers
b. Physical, data link, and network layers
c. Physical layer
d. Data link layer The correct **answer** is a

346. In the data link layer, Frame Relay uses _____. a. A simplified HDLC protocol
b. LAPB
c. BSC protocol
d. Any ANSI standard protocol The correct **answer** is a

347. The VPI of an NNI is _____ bits in length.

a. 16
b. 8
c. 12
d. 24

The correct **answer** is c

348. In data communications, ATM is an acronym for _____.
a. Automated Teller Machine
b. Automatic Transmission Model
c. Asynchronous Transfer Mode
d. Asynchronous Telecommunication Method The correct **answer** is c

349. Which AAL type is designed to support SEAL? a. AAL1
b. AAL2
c. AAL3/4
d. AAL5
The correct **answer** is d
350. Which layer in ATM protocol reformats the data received from other networks? a. Physical
b. Application adaptation
c. Data adaptation
d. ATM
The correct **answer** is b
351. Which layer in ATM protocol has a 53-byte cell as an end product? a. ATM
b. Application adaptation
c. Physical
d. Cell transformation
The correct **answer** is a
352. Which AAL type is designed to support a data stream that has a constant bit rate? a. AAL1
b. AAL2
c. AAL3/4
d. AAL5
The correct **answer** is a
353. The VPI of a UNI is _____ bits in length. a. 12
b. 16
c. 24
d. 8
The correct **answer** is d
354. In an ATM network, all cells belonging to a single message follow the same _____ and remain in their original order until they reach their destination. a. Virtual circuit
b. Transmission path
c. Virtual path

d. None of the above The correct **answer** is a 355. A device called a(n) _____ allows frames from an ATM network to be transmitted across a Frame Relay network. a. FRAD
b. LMI
c. VOFR
d. DLCI
The correct **answer** is a

356. A _____ provides a connection or a set of connections between switches. a. Transmission path
b. Virtual circuit
c. Virtual path
d. None of the above The correct **answer** is b
357. A _____ is the physical connection between an endpoint and a switch or between two switches. a. Virtual path
b. Transmission path
c. Virtual circuit
d. None of the above The correct **answer** is b
358. On a network that uses NAT, the _____ has a translation table. a. Router
b. Switch
c. Server
d. None of the above The correct **answer** is a
359. Identify the class of IP address 229.1.2.3. a. Class A
b. Class B
c. Class C
d. Class D
The correct **answer** is d
360. On a network that uses NAT, _____ initiates the communication.
a. An internal host
b. An external host
c. The router
d. (a) or (b)
The correct **answer** is a

361. A subnet mask in class B can have _____ 1s with the remaining bits 0s. a. Nine
b. Seventeen
c. Three
d. Fourteen
The correct **answer** is b
362. A subnet mask in class C can have _____ 1s with the remaining bits 0s. a. Twenty-five
b. Twelve
c. Seven
d. Ten
The correct **answer** is a
363. Identify the class of IP address 4.5.6.7. a. Class A
b. Class B
c. Class C
d. Class D
The correct **answer** is a
364. Identify the class of IP address 191.1.2.3. a. Class A
b. Class B
c. Class C
d. Class D

The correct **answer** is b
365. A subnet mask in class A can have _____ 1s with the remaining bits 0s. a. Nine
b. Four
c. Thirty-three
d. Three
The correct **answer** is a
366. Class _____ has the greatest number of hosts per given network address. a. A
b. B
c. C
d. D
The correct **answer** is a

367. A subnet mask in class B has nineteen 1s. How many subnets does it define? a. 128
b. 8
c. 32
d. 64
The correct **answer** is b
368. In _____ routing, the full IP address of a destination is given in the routing table. a. Next-hop
b. Host-specific
c. Network-specific
d. Default
The correct **answer** is b
369. A subnet mask in class C has twenty-five 1s. How many subnets does it define? a. 0
b. 2
c. 8
d. 16
The correct **answer** is b
370. Given the IP address 180.25.21.172 and the subnet mask 255.255.192.0, what is the subnet address? a. 180.25.21.0
b. 180.25.8.0
c. 180.25.0.0
d. 180.0.0.0
The correct **answer** is c
371. Given the IP address 18.250.31.14 and the subnet mask 255.240.0.0, what is the subnet address?
a. 18.9.0.14
b. 18.0.0.14
c. 18.31.0.14
d. 18.240.0.0 The correct **answer** is d
372. _____ is a client-server program that provides an IP address, subnet mask, IP address of a router, and IP address of a name server to a computer. a. NAT
b. DHCP
c. CIDR

d. ISP

The correct **answer** is b

373. In _____, each packet of a message need not follow the same path from sender to receiver.

a. The virtual approach to packet switching
b. The datagram approach to packet switching

c. Message switching
d. None of the above The correct **answer** is b

374. An IP address consists of _____ bits. a. 8
b. 32
c. 4
d. Any of the above The correct **answer** is b

375. On a network that uses NAT, the router can use _____ global address(es). a. A pool of
b. One
c. Two
d. None of the above The correct **answer** is a

376. In _____ routing, the mask and destination addresses are both 0.0.0.0 in the routing table. a. Default
b. Next-hop
c. Network-specific
d. Host-specific The correct **answer** is a

377. A subnet mask in class A has fourteen 1s. How many subnets does it define? a. 64
b. 128
c. 32
d. 8

The correct **answer** is a

378. In which type of switching do all the packets of a message follow the same channels of a path? a. Virtual circuit packet switching
b. Message switching
c. Datagram packet switching
d. None of the above The correct **answer** is a

379. In _____ routing, the destination address is a network address in the routing table. a. Network-specific

b. Host-specific

c. Next-hop

d. Default

The correct **answer** is a

380. Given the IP address 201.14.78.65 and the subnet mask 255.255.255.224, what is the subnet address? a. 201.14.78.64

b. 201.14.78.32

c. 201.14.78.65

d. 201.14.78.12 The correct **answer** is a

381. In error reporting the encapsulated ICMP packet goes to _____.

a. The receiver

b. A router

c. The sender

d. Any of the above

The correct **answer** is c

382. When the hop-count field reaches zero and the destination has not been reached, a _____ error message is sent.

a. Destination-unreachable

b. Redirection

c. Time-exceeded

d. Parameter-problem The correct **answer** is c

383. An ARP request is _____ to _____. a. Multicast; one host

b. Unicast; all hosts

c. Broadcast; all hosts

d. Unicast; one host The correct **answer** is c

384. What is the maximum size of the data portion of the IP datagram?

a. 65,515 bytes

b. 65,535 bytes

c. 65,475 bytes

d. 65,460 bytes The correct **answer** is a

385. A best-effort delivery service such as IP does not include _____.

a. Error correction
b. Error checking
c. Datagram acknowledgment
d. All the above The correct **answer** is d

386. An HLEN value of decimal 10 means _____. a. There is 10 bytes of options
b. There is 40 bytes in the header
c. There is 40 bytes of options
d. There is 10 bytes in the header

The correct **answer** is b

387. In IPv4, what is the value of the total length field in bytes if the header is 28 bytes and the data field is 400 bytes? a. 407
b. 107
c. 428
d. 427

The correct **answer** is c

388. If the fragment offset has a value of 100, it means that _____.
a. The first byte of the datagram is byte 800
b. The datagram has not been fragmented
c. The datagram is 100 bytes in size
d. The first byte of the datagram is byte 100 The correct **answer** is a

389. What is needed to determine the number of the last byte of a fragment?
a. Identification number
b. Offset number
c. Total length
d. (b) and (c) The correct **answer** is d

390. The IP header size _____. a. Depends on the MTU
b. Is 20 to 60 bytes long
c. Is 20 bytes long
d. Is 60 bytes long The correct **answer** is b

391. If a host needs to synchronize its clock with another host, it sends a _____ message.

a. Time-exceeded
b. Time-stamp-request
c. Source-quench
d. Router-advertisement The correct **answer** is b

392. Which of the following is a necessary part of the IPv6 datagram?
a. Base header
b. Extension header
c. Data packet from the upper layer
d. (a) and (c) The correct **answer** is d

393. _____ is a dynamic mapping protocol in which a physical address is found for a given IP address. a. RARP
b. ICMP
c. ARP
d. None of the above The correct **answer** is c

394. A router reads the _____ address on a packet to determine the next hop. a. MAC
b. Source
c. IP
d. ARP
The correct **answer** is c

395. The target hardware address on an Ethernet is _____ in an ARP request. a. Variable
b. Class-dependent
c. 0x000000000000
d. 0.0.0.0
The correct **answer** is c

396. When not all fragments of a message have been received within the designated amount of time, a _____ error message is sent.
a. Time-exceeded
b. Parameter-problem
c. Source-quench
d. Time-stamp-request The correct **answer** is a

397. A _____ can learn about network _____ by sending out a router-solicitation packet. a. Router; routers
b. Router; hosts

c. Host; routers
d. Host; hosts The correct **answer** is c

398. Which of the following types of ICMP messages needs to be encapsulated into an IP datagram? a. Time-exceeded
b. Multicasting
c. Echo reply
d. All the above The correct **answer** is d

399. The purpose of echo request and echo reply is to _____.
a. Report errors
b. Check packet lifetime
c. Check node-to-node communication
d. Find IP addresses The correct **answer** is c

400. An ARP reply is _____ to _____. a. Unicast; one host
b. Broadcast; all hosts
c. Multicast; one host
d. Unicast; all hosts The correct **answer** is a

401. One method to alert a source host of congestion is the _____ message. a. Source-quench
b. Redirection
c. Echo-request
d. Destination-unreachable The correct **answer** is a

402. A time-exceeded message is generated if _____. a. The round-trip time between hosts is close to zero
b. The time-to-live field has a zero value
c. Fragments of a message do not arrive within a set time
d. (b) and (c) The correct **answer** is d 403. To determine whether a node is reachable, _____ message can be sent. a. An echo-request
b. An echo-reply
c. A redirection
d. A source-quench The correct **answer** is a

404. In IPv6, the _____ field in the base header restricts the lifetime of a datagram. a. Version
b. Hop limit

c. Priority
d. Next-header The correct **answer** is b

405. In IPv4, what is the length of the data field given an HLEN value of 12 and total length value of 40,000? a. 39,952
b. 39,988
c. 40,012
d. 40,048

The correct **answer** is a

406. A datagram is fragmented into three smaller datagrams. Which of the following is true?

a. The do not fragment bit is set to 1 for all three datagrams.
b. The identification field is the same for all three datagrams.
c. The more fragment bit is set to 0 for all three datagrams.
d. The offset field is the same for all three datagrams. The correct **answer** is b

407. Errors in the header or option fields of an IP datagram require a _____ error message. a. Source-quench
b. Parameter-problem
c. Router-solicitation
d. Redirection The correct **answer** is b 408. The cost field of a router's first table from itself always has a value of _____.

a. Some positive integer
b. 0
c. 1
d. Infinity

The correct **answer** is b

409. A routing table contains _____. a. The destination network ID
b. The hop count to reach the network
c. The router ID of the next hop
d. All the above The correct **answer** is d

410. Router B receives an update from router A that indicates Net1 is two hops away. The next update from A says Net1 is five hops away. What value is entered in B's routing table for Net1? Assume the basic RIP is being used. a. 6

b. 7
c. 2
d. 3
The correct **answer** is a
411. If the routing table contains four new entries, how many update messages must the router send to its one neighbor router? a. 3
b. 4
c. 1
d. 2
The correct **answer** is c
412. An area border router can be connected to _____. a. Only another router
b. Only another network
c. Only another area border router
d. Another router or another network
The correct **answer** is d
413. Which of the following usually has the least number of connections to other areas? a. A transient link
b. A stub link
c. An area
d. An autonomous system The correct **answer** is b
414. _____ is used in a dense multicast environment while _____ is used in a sparse multicast environment. a. PIM-SM; PIM-DM
b. PIM; PIM-DM
c. PIM; PIM-SM
d. PIM-DM; PIM-SM The correct **answer** is d
415. When a multicast router is not directly connected to another multicast router, a _____ can be formed to connect the two. a. Logical core
b. Spanning tree
c. Physical tunnel
d. Logical tunnel The correct **answer** is d
416. Which type of network using the OSPF protocol can have five routers attached to it? a. Transient
b. Stub

c. Point-to-point
d. All the above The correct **answer** is a

417. A WAN using the OSPF protocol that connects two routers is an example of a _____ type of OSPF network. a. Stub

b. Point-to-point
c. Transient
d. Virtual

The correct **answer** is b

418. If four hosts on a network belong to the same group, a total of _____ sent in

a. One membership report is
b. Two membership reports are
c. Three membership reports are
d. Four membership reports are The correct **answer** is b

419. A one-to-all communication between a source and all hosts on a network is classified as a _____ communication. a. Unicast
b. Multicast
c. Broadcast
d. (a) and (b) The correct **answer** is c

420. Which type of BGP message announces a route to a new destination? a. Update
b. Open
c. Keep-alive
d. Notification The correct **answer** is a

421. Which layer produces the OSPF message? a. Data link
b. Transport
c. Application
d. Network

The correct **answer** is d

422. Which of the following is an exterior routing protocol? a. RIP
b. OSPF
c. BGP
d. (a) and (b) The correct **answer** is c 423. An area is _____.
a. Composed of at least two ASs

b. Another term for an internet
c. Part of an AS
d. A collection of stub areas The correct **answer** is c

424. In an autonomous system with n areas, how many areas are connected to the backbone? a. 1
b. n
c. n – 1
d. n + 1

The correct **answer** is c

425. Which of the following is an interior routing protocol? a. RIP
b. OSPF
c. BGP
d. (a) and (b) The correct **answer** is d

426. OSPF is based on _____.

a. Distance vector routing
b. Path vector routing
c. Link state routing
d. (a) and (b) The correct **answer** is c 427. BGP is based on _____. a. Distance vector routing
b. Link state routing
c. Path vector routing
d. (a) and (b) The correct **answer** is c

428. Which type of BGP message creates a relationship between two routers? a. Keep-alive
b. Open
c. Update
d. Notification The correct **answer** is b

429. Which type of network using the OSPF protocol always consists of just two connected routers? a. Transient
b. Stub
c. Point-to-point
d. Virtual

The correct **answer** is c

430. Which type of network using the OSPF protocol is the result of a break in a link between two routers? a. Virtual

b. Point-to-point

c. Transient

d. Stub

The correct **answer** is a

431. Which type of BGP message is sent by a router to close a connection? a. Open

b. Update

c. Notification

d. Keep-alive

The correct **answer** is c

432. An IGMP query is sent from a _____ to a _____. a. Router; host or router

b. Host; host

c. Host; router

d. Router; router

The correct **answer** is a

433. Which type of BGP message is sent by a system to notify another router of the sender's existence? a. Keep-alive

b. Notification

c. Open

d. Update

The correct **answer** is a

434. An Ethernet LAN using the OSPF protocol with five attached routers can be called a _____ network. a. Point-to-point

b. Stub

c. Transient

d. Virtual

The correct **answer** is c

435. In distance vector routing each router receives information directly from _____. a. Its neighbors only

b. Every router on the network

c. Every router less than two units away

d. A table stored by the network hosts The correct **answer** is a

436. A system uses group-shared trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of _____ different trees. a. 20

b. 100

c. 5

d. 500

The correct **answer** is c

437. _____ is a multicast routing protocol using sourcebased trees. a. DVRMP

b. MOSPF

c. CBT

d. (a) and (b) The correct **answer** is d

438. Pruning and grafting are strategies used in _____. a. RPM

b. RPF

c. RPB

d. All the above The correct **answer** is a

439. In distance vector routing a router sends out information _____.

a. Only when there is a change in its table

b. Only when a new host is added

c. At regularly scheduled intervals

d. Only when a new network is added

The correct **answer** is c

440. The _____ field of the IGMP message is all zeros in a query message.

a. Version

b. Type

c. Group address

d. Checksum

The correct **answer** is c

441. The _____ field of the IGMP message is 0x11 for a query message. a. Version

b. Type

c. Checksum

d. d. (a) and (b) The correct **answer** is d

442. A one-to-many communication between a source and a specific group of hosts is classified as a _____ communication. a. Multicast

b. Unicast

c. Broadcast

d. (a) and (b) The correct **answer** is a

443. A one-to-one communication between a source and one destination is classified as a _____ communication. a. Unicast

b. Multicast

c. Broadcast

d. d. (a) and (b)

The correct **answer** is a

444. _____ is a multicasting application. a. Teleconferencing

b. Distance learning

c. Information dissemination

d. All the above The correct **answer** is d

445. A _____ is a data structure with nodes and edges and a hierarchical structure.

answer

a. Graph
b. Leaf
c. Tree
d. Root

The correct is c

446. A system uses source-based trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of _____ different trees. a. 5
b. 20
c. 100
d. 500

The correct **answer** is d

447. In a _____ tree approach to multicasting, the combination of source and group determines the tree. a. Shortest-group
b. Source-based
c. Spanning-source
d. Group-shared The correct **answer** is b

448. In a _____ tree approach to multicasting, the group determines the tree. a. Group-shared
b. Spanning-source
c. Shortest-group
d. Source-based The correct **answer** is a

449. _____ is a multicast routing protocol using groupshared trees. a. DVRMP
b. MOSPF
c. CBT
d. (a) and (b) The correct **answer** is c

450. In _____ a network can receive a multicast packet from a particular source only through a designated parent router.

answer

a. RPF
b. RPM
c. RPB
d. All the above

The correct is c

451. Dijkstra's algorithm is used to _____. a. Create LSAs
b. Flood an internet with information
c. Create a link state database
d. Calculate the routing tables The correct **answer** is d

452. A _____ message tells an upstream router to stop sending multicast messages for a specific group through a specific router.
a. Graft

b. Prune
c. Weed
d. Plum

The correct **answer** is b

453. The _____ is used by a router in response to a received-leave report.
a. Special query message
b. General query message
c. Membership report
d. Leave report The correct **answer** is a 454. RIP is based on _____. a. Link state routing
b. Dijkstra's algorithm
c. Path vector routing
d. Distance vector routing The correct **answer** is d

455. A _____ message tells an upstream router to start sending multicast messages for a specific group through a specific router.
a. Weed
b. Prune

answer

c. Plum
d. Graft

The correct is d

456. _____ uses multicast link state routing concepts to create source-based trees. a. DVMRP
b. CBT
c. BVD
d. MOSPF

The correct **answer** is d

457. In the _____ protocol, a multicast packet is encapsulated inside a unicast packet with the core router as the destination. a. DVMRP
b. CBT
c. MOSPF
d. BVD

The correct **answer** is b

458. The _____ is an IGMP message. a. Query message
b. Membership report
c. Leave report
d. All the above The correct **answer** is d

459. The _____ defines the client program. a. Well-known port number
b. Ephemeral port number
c. IP address
d. Physical address The correct **answer** is b

460. The _____ timer is used in the termination phase.
a. Retransmission
b. Time-waited
c. Persistence
d. Keep-alive The correct **answer** is b

461. Which is a legal port address? a. 0
b. 513
c. 65,535
d. All the above The correct **answer** is d
462. The definition of reliable delivery includes _____. a. Error-free delivery
b. Receipt of the complete message
c. In-order delivery
d. All the above The correct **answer** is d
463. Which of the following does UDP guarantee? a. Acknowledgments to the sender
b. Flow control
c. Sequence numbers on each user datagram
d. None of the above The correct **answer** is d
464. The source port address on the UDP user datagram header defines _____.
a. The sending computer
b. The receiving computer
c. The application program on the receiving computer
d. The application program on the sending computer The correct **answer** is d
465. A host can be identified by _____ while a program running on the host can be identified by _____. a. A port number; an IP address
b. An IP address; a port number
c. An IP address; a host address
d. An IP address; a well-known port The correct **answer** is b
466. Which of the following is not part of the UDP user datagram header?
a. Source port address
b. Checksum
c. Length of header
d. Destination port address The correct **answer** is c
467. The _____ defines the server program. a. IP address
b. Well-known port number
c. Ephemeral port number

d. Physical address The correct **answer** is b

468. IP is responsible for _____ communication while TCP is responsible for _____ communication. a. Process-to-process; node-to-node

b. Host-to-host; process-to-process

c. Process-to-process; host-to-host

d. Node-to-node; process-to-process The correct **answer** is b

469. The _____ timer is needed to handle the zero window-size advertisement. a. Persistence

b. Keep-alive

c. Retransmission

d. Time-waited The correct **answer** is a

470. Connection establishment involves a _____ handshake.

a. Three-way

b. One-way

c. Two-way

d. None of the above The correct **answer** is a

471. A special segment called a probe is sent by a sending TCP when the _____ timer goes off. a. Persistence

b. Transmission

c. Keep-alive

d. Time-waited The correct **answer** is a 472. The _____ address uniquely identifies a running application program. a. IP address

b. NIC

c. Socket

d. Host

The correct **answer** is c

473. The _____ field is used to order packets of a message.

a. Sequence number

b. Acknowledgment number

c. Urgent pointer

d. Checksum

The correct **answer** is a

474. The _____ field is used for error detection. a. Sequence number

b. Acknowledgment number
c. Urgent pointer
d. Checksum
The correct **answer** is d
475. Multiply the header length field by _____ to find the total number of bytes in the TCP header. a. 4
b. 6
c. 8
d. 2
The correct **answer** is a
476. Urgent data require the urgent pointer field as well as the URG bit in the _____ field. a. Sequence number
b. Control
c. Offset
d. Reserved
The correct **answer** is b
477. In _____, data are sent or processed at a very inefficient rate, such as 1 byte at a time. a. Silly window syndrome
b. Sliding window syndrome
c. Nagle's syndrome
d. Delayed acknowledgment The correct **answer** is a
478. The _____ timer keeps track of the time between the sending of a segment and the receipt of an acknowledgment. a. Time-waited
b. Retransmission
c. Persistence
d. Keep-alive

The correct **answer** is b
479. To prevent silly window syndrome created by a receiver that processes data at a very slow rate, _____ can be used.
a. Clark's solution
b. Nagle's algorithm
c. Delayed acknowledgment
d. (a) or (c)
The correct **answer** is d

480. To prevent silly window syndrome created by a sender that sends data at a very slow rate, _____ can be used. a. Nagle's algorithm
b. Clark's solution
c. Delayed acknowledgment
d. (a) or (c)
The correct **answer** is a
481. An ACK number of 1000 always means that _____. a. 999 bytes has been successfully received
b. 1000 bytes has been successfully received
c. 1001 bytes has been successfully received
d. None of the above The correct **answer** is d
482. The _____ timer prevents a long idle connection between two TCPs. a. Keep-alive
b. Time-waited
c. Retransmission
d. Persistence The correct **answer** is a
483. UDP and TCP are both _____ layer protocols. a. Physical
b. Data link
c. Network
d. Transport
The correct **answer** is d
484. Which of the following functions does UDP perform? a. End-to-end reliable data delivery
b. Process-to-process communication
c. Host-to-host communication
d. All the above The correct **answer** is b
485. UDP needs the _____ address to deliver the user datagram to the correct application program. a. Application
b. Internet
c. Physical
d. Port
The correct **answer** is d
486. Karn's algorithm is used in calculations by the _____ timer.
a. a. Time-waited
b. Retransmission

c. Persistence
d. Keep-alive
The correct **answer** is b
487. Slow start is used in conjunction with _____ as a TCP congestion control strategy. a. Multiplicative increase
b. Multiplicative decrease

c. Additive increase
d. Additive decrease The correct **answer** is c
488. The maximum length of time that traffic is generated at the peak rate is called the _____.
a. Effective bandwidth
b. Average data rate
c. Maximum burst size
d. Constant bit rate The correct **answer** is c
489. For a system using TCP, the sender window size is determined by the _____ window size. a. Receiver
b. Sender
c. Congestion
d. (a) and (c) The correct **answer** is d
490. _____ traffic features sudden data rate changes in very short periods of time. a. Constant-bit-rate
b. Bursty
c. Variable-bit-rate
d. Peak-bit-rate The correct **answer** is b
491. When the load is greater than the capacity, the delay _____.
a. Decreases
b. Goes to infinity
c. Increases linearly
d. Goes to zero The correct **answer** is b
492. _____ is a closed-loop mechanism to alleviate congestion.
a. A choke point
b. Implicit signaling
c. Explicit signaling
d. All the above The correct **answer** is d

493. The FECN informs the _____ of congestion while the BECN informs the _____ of congestion. a. Sender; destination

b. Interface; sender

c. Destination; interface

d. Destination; sender The correct **answer** is d

494. The _____ is the maximum data rate of the traffic. a. Average data rate

b. Maximum burst size

c. Effective bandwidth

d. Peak data rate The correct **answer** is d

495. _____ is a flow characteristic in which the delay varies for packets belonging to the same flow. a. Choke point

b. Additive increase

c. Jitter

d. Throughput The correct **answer** is b

496. In _____ queuing the first packet into the queue is the first packet out of the queue. a. Priority

b. Weighted fair

c. FIFO

d. LIFO

The correct **answer** is c

497. In Frame Relay the transmission rate can never exceed _____. a. Bc

b. The access rate

c. Be

d. CIR

The correct **answer** is b

498. _____ measures the variation in cell transmission time.

a. SCR

b. CVDT

c. PCR

d. MCR

The correct **answer** is b

499. If the SCR is 60,000, the PCR is 70,000, and the MCR is 55,000, what is the minimum number of cells that can be sent per second?

a. 60,000
b. 70,000
c. 55,000
d. 5000

The correct **answer** is c

500. The _____ traffic shaping method gives a host credit for its idle time.

a. Leaky bucket
b. Traffic bucket
c. Token bucket
d. Bursty bucket The correct **answer** is c

501. A flow-based QoS model designed for IP is called _____. a. RSVP
b. Integrated Services
c. Differentiated Services
d. Multicast trees The correct **answer** is b

502. A signaling protocol that helps IP create a flow is called _____. a. RSVP
b. Integrated Services
c. Differentiated Services
d. Multicast trees The correct **answer** is a

503. RSVP uses _____ messages. a. Path
b. Resv
c. Resource
d. (a) and (b) The correct **answer** is d 504. In an RSVP reservation style called _____ filter, the router creates a single reservation that can be shared by a set of flows.

a. Fixed
b. Shared explicit
c. Wild card
d. All the above The correct **answer** is b

505. Differentiated Services was designed to handle the _____ problem associated with Integrated Services. a. Stability
b. Reservation

c. Scalability
d. All the above The correct **answer** is c
506. A _____ is a Differentiated Services traffic conditioner.
a. Meter
b. Marker
c. Shaper
The correct **answer** is c
507. What is the relationship between the access rate and the CIR?
a. CIR plus Be is equal to the access rate.
b. CIR is always equal to the access rate.
c. CIR is greater than the access rate.
d. CIR is less than the access rate. The correct **answer** is d
508. If the maximum CTD is 10 µs and the minimum CTD is 1 µs, the _____ is 9 µs. a. CDV
b. CLR
c. CTD
d. CER
The correct **answer** is a
509. A Frame Relay network is committed to transfer _____ bps without discarding any frames. a. Be
b. Bc
c. CIR
d. (a) and (b) The correct **answer** is b
510. The effective bandwidth is based on _____. a. Average data rate
b. Peak data rate
c. Maximum burst size
d. All the above The correct **answer** is d
511. The cell _____ is the difference between the CTD maximum and minimum.
a. Delay variation
b. Error ratio
c. Loss ratio
d. Transfer delay
The correct **answer** is a

512. The cell _____ is the ratio of lost cells to cells sent. a. Delay variation
b. Error ratio
c. Loss ratio
d. Transfer delay The correct **answer** is c
513. The _____ service class is particularly suitable for applications with bursty data. a. CBR
b. ABR
c. VBR
d. UBR
The correct **answer** is b

514. The _____ service class is suitable for customers who need real-time video transmission without compression. a. ABR
b. CBR
c. VBR
d. UBR
The correct **answer** is b
515. The _____ is greater than the SCR. a. MCR
b. CVDT
c. PCR
d. All the above The correct **answer** is c
516. The _____ is the fraction of the cells delivered in error.
a. CLR
b. CER
c. CTD
d. CDV
The correct **answer** is b
517. When added to Be, Bc should be less than the _____. a. CIR
b. Committed burst size
c. Access rate
d. (a) and (b) The correct **answer** is c
518. A connectionless iterative server uses _____ ports. a. Well-known
b. Ephemeral
c. Active

d. (a) and (b) The correct **answer** is a

519. The _____ socket is used with a protocol that directly uses the services of IP. a. Raw

b. Stream

c. Datagram

d. Remote

The correct **answer** is a

520. A _____ server serves multiple clients, handling one request at a time.

a. Connectionless iterative

b. Connectionless concurrent

c. Connection-oriented iterative

d. Connection-oriented concurrent The correct **answer** is a

521. A client issues _____ when it needs service from a server.

a. An active request

b. A finite open

c. An active open

d. A passive open The correct **answer** is c

522. A _____ server serves multiple clients simultaneously.

a. Connectionless iterative

b. Connectionless concurrent

c. Connection-oriented iterative

d. Connection-oriented concurrent

The correct **answer** is d

523. The server program is _____ because it is always available, waiting for a client request. a. Finite

b. Infinite

c. Active

d. Passive

The correct **answer** is b

524. A connection-oriented concurrent server uses _____ ports.

a. Well-known

b. Ephemeral

c. Active

d. (a) and (b) The correct **answer** is d

525. Machine A requests service X from machine B. Machine B requests service Y from machine A. What is the total number of application programs required?

a. One
b. Two
c. Three
d. Four

The correct **answer** is d

526. A server program, once it issues _____, waits for clients to request its service. a. An active request

b. A finite open
c. An active open
d. A passive open The correct **answer** is d

527. _____ can request a service. a. A socket interface

b. A client
c. A port
d. A server

The correct **answer** is b

528. _____ can provide a service. a. An iterative server

b. A concurrent server
c. A client
d. (a) and (b) The correct **answer** is d

529. The client program is _____ because it terminates after it has been served. a. Finite

b. Infinite
c. Active
d. Passive

The correct **answer** is a

530. _____ processes requests one at a time. a. An iterative server

b. A concurrent client
c. An iterative client

d. A concurrent server The correct **answer** is a 531. The _____ socket is used with a connectionless protocol. a. Raw
b. Stream

c. Datagram
d. Remote
The correct **answer** is c
532. _____ processes many requests simultaneously. a. An iterative server
b. A concurrent client
c. An iterative client
d. A concurrent server The correct **answer** is d
533. In a connection-oriented concurrent server, the _____ is used for connection only. a. Well-known port
b. Infinite port
c. Ephemeral port
d. (b) and (c) The correct **answer** is a
534. A _____ is an instance of a _____. a. Program; process
b. Process; program
c. Process; service
d. Structure; process The correct **answer** is b
535. The _____ socket is used with a connection-oriented protocol. a. Raw
b. Stream
c. Datagram
d. Remote
The correct **answer** is b
536. In the string 219.46.123.107.in-addr.arpa, what is the network address of the host we are looking for? a. 107.123.46.0
b. 107.0.0.0
c. 219.46.123.0
d. 107.123.0.0 The correct **answer** is b
537. In _____ resolution the client is in direct contact with at most one server. a. A cache

b. A recursive
c. An iterative
d. All the above The correct **answer** is b

538. In address-to-name resolution the _____ domain is used.
a. Reverse
b. Generic
c. Country
d. Inverse

The correct **answer** is d

539. How is the lifetime of a name-to-address resolution in cache memory controlled?
a. By the time-to-live field set by the server
b. By the time-to-live counter set by the server
c. By the time-to-live field set by the authoritative server
d. (b) and (c) The correct **answer** is d

540. A DNS response is classified as _____ if the information comes from a cache memory. a. Authoritative

b. Recursive
c. Unauthoritative
d. Iterative

The correct **answer** is c

541. A host with the domain name pit.arc.nasa.gov. is on the _____ level of the DNS hierarchical tree. (The root is level 1.)
a. Fourth
b. Fifth
c. Third
d. Not enough information given The correct **answer** is b

542. A DNS _____ server's zone is the entire DNS tree. a. Secondary
b. Root
c. Primary
d. All the above The correct **answer** is b

543. To find the IP address of a host when the domain name is known, the _____ can be used. a. Inverse domain
b. Generic domains

c. Country domains
d. (b) or (c)
The correct **answer** is a
544. A DNS _____ server gets its data from another DNS server.
a. Root
b. Primary
c. Secondary
d. All the above The correct **answer** is c
545. A DNS _____ server creates, maintains, and updates the zone file. a. Root
b. Primary
c. Secondary
d. All the above The correct **answer** is b
546. A host with the domain name trinity.blue.vers.inc is on the _____ level of the DNS hierarchical tree. (The root is level 1.)
a. Fourth
b. Fifth
c. Third
d. Not enough information given
The correct **answer** is d
547. In the domain name chal.atc.fhda.edu, _____ is the least specific label. a. fhda
b. edu
c. chal
d. atc
The correct **answer** is b
548. In the domain name chal.atc.fhda.edu, _____ is the most specific label. a. Fhda
b. chal
c. atc
d. edu
The correct **answer** is b
549. In _____ resolution the client could directly contact more than one server.

a. An iterative
b. A cache
c. A recursive
d. All the above The correct **answer** is a

550. Which of the following domain names would most likely use a country domain to resolve its IP address? a. chal.atac.fhda.edu
b. kenz.acct.sony.jp
c. gsfc.nasa.gov
d. mac.eng.sony.com The correct **answer** is b 551. A resolver is the _____. a. Host machine
b. DNS client
c. DNS server
d. Root server The correct **answer** is b

552. Which of the following is true?
a. FTP allows systems with different directory structures to transfer files.
b. FTP allows a system using ASCII and a system using EBCDIC to transfer files.
c. FTP allows a PC and a SUN workstation to transfer files.
d. All the above are true. The correct **answer** is d

553. An email contains a textual birthday greeting, a picture of a cake, and a song. The text must precede the image. What is the content-type?
a. Multipart/parallel
b. Multipart/digest
c. Multipart/alternative
d. Multipart/mixed The correct **answer** is d

554. During an FTP session the control connection is opened _____.
a. As many times as necessary
b. Exactly once
c. Exactly twice
d. All the above The correct **answer** is b

555. The purpose of the MTA is _____.
a. Transferral of messages across the Internet
b. Message preparation
c. Envelope creation
d. (a) and (b) The correct **answer** is a

556. In anonymous FTP, the user can usually _____. a. Store files
b. Retrieve files
c. Navigate through directories
d. Do all the above
The correct **answer** is b
557. Which part of the mail created by the UA contains the sender and receiver names? a. Header
b. Body
c. Envelope
d. Address
The correct **answer** is a

558. In the email address mackenzie@pit.arc.nasa.gov, what is the domain name? a. mackenzie
b. mackenzie@pit.arc.nasa.gov
c. pit.arc.nasa.gov
d. (a) and (b) The correct **answer** is c
559. The _____ field in the MIME header uses text to describe the data in the body of the message. a. Content-transfer-encoding
b. Content-Id
c. Content-type
d. Content-description The correct **answer** is b
560. The _____ field in the MIME header describes the method used to encode the data. a. Content-Id
b. Content-description
c. Content-type
d. Content-transfer-encoding The correct **answer** is d
561. The _____ field in the MIME header has type and subtype subfields.
a. Content-transfer-encoding
b. Content-type
c. Content-Id
d. Content-description The correct **answer** is b
562. A JPEG image is sent as email. What is the contenttype?
a. Multipart/mixed
b. Multipart/image

c. Image/basic
d. Image/JPEG
The correct **answer** is d
563. The purpose of the UA is _____. a. Message preparation
b. Envelope creation
c. Transferral of messages across the Internet
d. (a) and (b) The correct **answer** is d
564. The _____ field in the MIME header is the type of data and the body of the message. a. Content-Id
b. Content-description
c. Content-type
d. Content-transfer-encoding The correct **answer** is c
565. A message is fragmented into three email messages. What is the content-type? a. Message/partial
b. Multipart/partial
c. Multipart/mixed
d. Message/RFC822 The correct **answer** is a
566. A client machine usually needs _____ to send email. a. Only POP
b. Both SMTP and POP
c. Only SMTP
d. None of the above The correct **answer** is c

567. In FTP, what attributes must be defined by the client prior to transmission? a. Data type
b. File structure
c. Transmission mode
d. All the above The correct **answer** is d
568. In FTP, there are three types of _____: stream, block, and compressed. a. Data structures
b. Transmission modes
c. Files
d. All the above The correct **answer** is b
569. In FTP, ASCII, EBCDIC, and image define an attribute called _____.

a. Data structure
b. Transmission mode
c. File type
d. All the above The correct **answer** is c

570. In FTP, when you _____, it is copied from the server to the client.
a. Retrieve a file
b. Store a file
c. Retrieve a list
d. (a) and (c) The correct **answer** is d

571. In FTP, when you _____, it is copied from the client to the server.
a. Retrieve a file
b. Store a file
c. Retrieve a list
d. (a) and (c) The correct **answer** is b

572. An email contains a textual birthday greeting, a picture of a cake, and a song. The order is not important. What is the content-type?
a. Multipart/digest
b. Multipart/alternative
c. Multipart/mixed
d. Multipart/parallel The correct **answer** is d

573. During an FTP session the data connection is opened _____.
a. Exactly once
b. Exactly twice
c. As many times as necessary
d. All the above The correct **answer** is c

574. Which of the following is a retrieval method? a. HTTP
b. FTP
c. TELNET
d. All the above The correct **answer** is d

575. A request message always contains _____. a. A status line, a header, and a body
b. A status line and a header
c. A header and a body

d. A request line and a header The correct **answer** is d

576. Which of the following is present in both a request line and a status line? a. URL
b. Status code
c. HTTP version number
d. Status phrase The correct **answer** is c
577. Which of the following is not a client program in WWW? a. FTP
b. HTTP
c. HTML
d. TELNET
The correct **answer** is c
578. A user wants to replace a document with a newer version; the request line contains the _____ method. a. PUT
b. GET
c. POST
d. COPY
The correct **answer** is a
579. The _____ header can specify the client configuration and the client's preferred document format. a. Request
b. Response
c. General
d. Entity
The correct **answer** is a
580. The _____ tags enclose binary code or byte code. a. Executable contents
b. Image
c. List
d. Hyperlink
The correct **answer** is a
581. Which type of Web document is run at the client site? a. Dynamic
b. Active
c. Static
d. All the above The correct **answer** is b
582. HTTP has similarities to both _____ and _____. a. FTP; MTV
b. FTP; URL
c. FTP; SNMP

d. FTP; SMTP
The correct **answer** is d
583. A user needs to send the server some information. The request line method is _____. a. OPTION
b. POST
c. PATCH
d. MOVE
The correct **answer** is b
584. A response message always contains _____. a. A header and a body
b. A status line, a header, and a body

c. A request line and a header
d. A status line and a header The correct **answer** is c
585. The _____ header supplies information about the body of a document.
a. General
b. Request
c. Entity
d. Response
The correct **answer** is c
586. The _____ header can specify the server configuration or provide information about a request. a. General
b. Request
c. Response
d. Entity
The correct **answer** is c
587. Hypertext documents are linked through _____. a. TELNET
b. Pointers
c. DNS
d. Homepages The correct **answer** is b
588. Which of the following is an interpreter? a. CGI
b. FTP
c. HTTP
d. HTML

The correct **answer** is d

589. What are the components of a browser? a. Controller, client program, interpreter

b. Retrieval method, host computer, path name

c. Hypertext, hypermedia, HTML

d. All the above The correct **answer** is a

590. A user needs to retrieve a document from the server; the request line contains the _____ method. a. GET

b. HEAD

c. POST

d. PUT

The correct **answer** is a

591. Which type of Web document is fixed-content and is created and stored at the server site? a. Dynamic

b. Active

c. Static

d. All the above The correct **answer** is c

592. The _____ of a Web page contains the title and parameters used by the browser. a. Attributes

b. Tags

c. Head

d. Body

The correct **answer** is c

593. Which type of Web document is created at the server site only when requested by a client? a. Active b. Static

c. Dynamic

d. All the above The correct **answer** is c

594. In < IMG SRC="Pictures/book1.gif" ALIGN=middle> ALIGN is _____. a. The head

b. The body

c. A tag

d. An attribute The correct **answer** is d

595. A user wants to copy a file to another location; the request line contains the _____ method. a. PUT

b. PATCH

c. COPY
d. POST
The correct **answer** is c
596. What does the URL need to access a document? a. Path name
b. Host computer
c. Retrieval method
d. All the above The correct **answer** is d
597. Which type of Web document is transported from the server to the client in binary form? a. Active
b. Static
c. Dynamic
d. All the above The correct **answer** is a
598. An ending tag is usually of the form _____ a. <tagname>
b. <tagname!>
c. </tagname> The correct **answer** is c
599. An applet is a small application program written in _____
a. Shell script
b. Java
c. C
d. C++
The correct **answer** is b
600. Stock quotations are posted on the Web. This is probably a(n) _____ document. a. Passive
b. Dynamic
c. Active
d. Static
The correct **answer** is b
601. Updates for a satellite's coordinates can be obtained on the WWW. This is probably a(n) _____ document. a. Passive
b. Dynamic
c. Active
d. Static
The correct **answer** is b

602. A user needs to move a file to another location. The request line method is _____. a. PATCH

b. MOVE

c. PUT

d. GET

The correct **answer** is b

603. Which category of HTML tags allows the listing of documents?

a. Image

b. Hyperlink

c. List

d. Executable contents The correct **answer** is c

604. A program can use _____ to write a CGI program. a. Bourne shell script

b. Perl

c. C

d. Any of the above The correct **answer** is d

605. An unemployed actor has posted his resume on the Web. This is probably a(n) _____ document. a. Passive

b. Dynamic

c. Active

d. Static

The correct **answer** is d

606. The server receives input from a browser through _____.

a. An attribute

b. A form

c. A tag

d. Any of the above The correct **answer** is b

607. Output from a CGI program is _____. a. Text

b. Graphics

c. Binary data

d. Any of the above The correct **answer** is d

608. _____ is used to enable the use of active documents.

a. CGI

b. Java

c. HTML
d. All the above The correct **answer** is c 609. Java is _____.
a. A programming language
b. A run-time environment
c. A class library
d. All the above The correct **answer** is d
610. An applet is _____ document application program. a. An active
b. A passive
c. A static
d. A dynamic The correct **answer** is a
611. In a real-time video conference, data from the server are _____ to the client sites.

a. Unicast
b. Broadcast
c. Multicast
d. None of the above The correct **answer** is c
612. A _____ adds signals from different sources to create a single signal. a. Mixer
b. Translator
c. Timestamp
d. Sequence number The correct **answer** is a
613. The RTCP _____ message shuts down a stream.
a. Application-specific
b. Source description
c. Bye
d. Farewell
The correct **answer** is c
614. A standard that allows a telephone (connected to a public telephone network) to talk to a computer connected to the Internet is _____. a. SIP
b. H.323
c. IEEE 802.3
d. V.90bis
The correct **answer** is b

615. A _____ changes the format of a high-bandwidth video signal to a lower-quality narrow-bandwidth signal. a. Timestamp

b. Sequence number

c. Mixer

d. Translator

The correct **answer** is d

616. An RTP packet is encapsulated in a(n) _____. a. IP datagram

b. RTCP packet

c. UDP user datagram

d. TCP segment The correct **answer** is c

617. The last step in JPEG, _____, removes redundancies. a. Blocking

b. Compression

c. Quantization

d. Vectorization The correct **answer** is b

618. A _____ shows when a packet was produced relative to the first or previous packet. a. Sequence number

b. Threshold

c. Timestamp

d. Playback buffer The correct **answer** is c

619. _____ is a protocol to set up and terminate a connection between a computer on the Internet and a telephone (connected to a public telephone network). a. H.245

b. H.225

c. H.323

d. Q.931

The correct **answer** is d

620. TCP is not suitable for real-time traffic because _____.

a. There is no provision for timestamping

b. There is no support for multicasting

c. Missing packets are retransmitted

d. All the above The correct **answer** is d

621. JPEG encoding involves _____, a process that reveals the redundancies in a block. a. Quantization

b. Vectorization

c. Blocking
d. The DCT
The correct **answer** is d
622. The RTCP _____ report informs the sender and other receivers about the quality of service. a. Sender
b. QoS
c. Receiver
d. Passive
The correct **answer** is c
623. _____ is an application layer protocol that establishes, maintains, and terminates a multimedia session. a. DCT
b. SIP
c. RTCP
d. JPEG
The correct **answer** is b
624. For streaming stored audio/video, the _____ holds information about the audio video file. a. Jitter
b. Alpha file
c. Beta file
d. Metafile
The correct **answer** is d
625. _____ is a control protocol that adds functionalities to the streaming process. a. TCP/IP
b. RTSP
c. HTTP
d. SIP
The correct **answer** is b
626. The audio/video stream is sent by the media server to the _____.
a. Media player
b. Browser
c. Web server
d. None of the above The correct **answer** is a
627. Voice over IP is a(n) _____ audio/video application. a. Interactive
b. Streaming stored
c. Streaming live

d. None of the above The correct **answer** is a

628. _____ is a SIP message type. a. INVITE

b. CANCEL

c. OPTIONS

d. All the above The correct **answer** is d

629. A _____ is involved in an SIP mechanism to find the IP address of a callee.

a. Proxy server

b. Registrar server

c. Media server

d. (a) and (b) The correct **answer** is d

630. _____ are used to number the packets of a real-time transmission.

a. Translators

b. Timestamps

c. Playback buffers

d. Sequence numbers The correct **answer** is d

631. In the _____ the encryption of each 8-byte block is independent of the others. a. CVF

b. CSM

c. ECB mode

d. CBC mode

The correct **answer** is c

632. In the public-key method of cryptography, which key is publicly known?

a. Encryption key only

b. Decryption key only

c. Both

d. None of the above The correct **answer** is a 633. A cipher is _____.

a. An encryption algorithm

b. A decryption algorithm

c. A private key

d. (a) or (b)

The correct **answer** is d

634. Before a message is encrypted, it is called _____. a. Ciphertext

b. Cryptotext
c. Cryptonite
d. Plaintext
The correct **answer** is d
635. If 20 people need to communicate using symmetric-key cryptography, _____ symmetric keys are needed. a. 190
b. 200
c. 19
d. 20
The correct **answer** is a
636. The _____ is an example of polyalphabetic substitution. a. P-box
b. Vigenere cipher
c. S-box
d. Product block The correct **answer** is b
637. In the symmetric-key method of cryptography, which key is publicly known?
a. Encryption key only
b. Decryption key only
c. Both
d. None of the above The correct **answer** is d
638. The RSA algorithm uses a _____ cryptography method.
a. Private-key
b. Symmetric-key
c. Denominational
d. Public-key
The correct **answer** is d
639. The _____ is a block cipher. a. P-box
b. S-box
c. Product block
d. All the above The correct **answer** is d
640. We use an cryptography method in which the plaintext AAAAAA becomes the ciphertext BCDEFG. This is probably _____.

a. Monoalphabetic substitution
b. Transposition
c. Polyalphabetic substitution
d. None of the above The correct **answer** is c

641. One way to encrypt and decrypt long messages is through the use of the _____. a. ECB mode
b. CBC mode
c. CFM
d. All the above The correct **answer** is d

642. An initialization vector is needed in the _____. a. CSM
b. CBC mode
c. CVF
d. (a) and (b) The correct **answer** is d

643. In the public-key method of cryptography, only the receiver has possession of the _____. a. Public key
b. Both keys
c. Private key
d. None of the above The correct **answer** is c

644. After a message is decrypted, it is called _____. a. Ciphertext
b. Cryptotext
c. Cryptonite
d. Plaintext

The correct **answer** is d

645. We use a cryptography method in which the character Z always substitutes for the character G. This is probably _____.
a. Polyalphabetic substitution
b. Transpositional
c. Monoalphabetic substitution
d. None of the above

The correct **answer** is c

646. A protocol called _____ describes the certificate issued by a CA in a structural way. a. KDC
b.
X.509
c. CA level 1

d. Kerberos

The correct **answer** is b

647. Windows 2000 uses an authentication protocol called _____.

a. Otway-Rees
b. Kerberos
c. Diffie-Hellman
d. Needham-Schroeder The correct **answer** is b

648. In the digital signature technique, the sender of the message uses _____ to create ciphertext. a. His or her own public key

b. His or her own private key
c. His or her own symmetric key
d. The receiver's private key The correct **answer** is b

649. A _____ is a trusted third party that solves the problem of symmetric-key distribution. a. TLS

b. Firewall
c. CA
d. KDC

The correct **answer** is d

650. In a _____ attack, a message captured by an intruder is illegally sent a second time. a. Return

b. Replay
c. Man-in-the-middle
d. Bucket brigade The correct **answer** is b 651. In the _____ protocol, a nonce is decremented by 1 so that an intruder cannot send the exact same message a second time.

a. Needham-Schroeder
b. Diffie-Hellman
c. Otway-Rees
d. Kerberos

The correct **answer** is a

652. If user A wants to send an encrypted message to user B, the plaintext is encrypted with the public key of _____. a. The network

b. User A
c. User B
d. (a) or (b)

The correct **answer** is c

653. When symmetric-key encryption is combined with private-key encryption, the _____ key is encrypted with the public key. a. Skeleton

b. Private

c. Public

d. Symmetric The correct **answer** is d

654. The _____ issues tickets for the real server. a. Real server

b. Data server

c. AS

d. TGS

The correct **answer** is c

655. In _____-key cryptography, everyone has access to all the public keys. a. Private

b. Certified

c. Symmetric

d. Public

The correct **answer** is c

656. In the digital signature technique, the receiver of the message uses _____ to create plaintext.

a. The sender's public key

b. Her or his own symmetric key

c. Her or his own private key

d. Her or his own public key

The correct **answer** is a

657. A _____ is a large number used only once that helps distinguish a fresh authentication request from a repeated one. a. Ticket

b. Realm

c. Nonce

d. Public key The correct **answer** is c

658. A _____ certifies the binding between a public key and its owner.

a. KDC

b. TLS

c. CA

d. Firewall

The correct **answer** is c

659. In an authentication using symmetric keys, if 10 people need to communicate, we need _____ keys. a. 90

b. 10

c. 20

d. 45

The correct **answer** is d

660. In the _____ protocol, the symmetric key is K = G^{xy} mod N, where G and N are public numbers. a. Needham-Schroeder

b. Otway-Rees

c. Diffie-Hellman

d. Kerberos

The correct **answer** is c

661. In a _____ attack, an intruder comes between two communicating parties intercepting and replying to their messages. a. Bucket-in-the-middle

b. Replay

c. Return

d. Man-in-the-middle The correct **answer** is d

662. A _____ is a trusted third party that establishes a symmetric key between two parties who wish to communicate.

a. PKI

b. TGS

c. KDC

d. CA

The correct **answer** is c

663. _____ is an authentication protocol that needs an authentication server and a ticketgranting server.

a. Needham-Schroeder

b. Diffie-Hellman

c. Otway-Rees

d. Kerberos

The correct **answer** is d **664. The _____ is the KDC in the Kerberos protocol.** a. Real server

b. Data server

c. AS

d. TGS

The correct **answer** is c

665. The _____ field in the authentication header and the ESP header define the security method used in creating the authentication data. a. Authentication data

b. SPI

c. Padding

d. Sequence number

The correct **answer** is b

666. Tunneling is a technique in which the IP datagram is first _____ and then _____.

a. Encapsulated in another datagram; encrypted

b. Encrypted; encapsulated in another datagram

c. Authenticated; encrypted

d. Encrypted; authenticated

The correct **answer** is b

667. _____ is an IP layer security protocol that only provides integrity and authentication. a. PGP

b. ESP

c. IPSec

d. AH

The correct **answer** is d

668. An _____ is a private network with no external access that uses the TCP/IP suite. a. Internet

b. Intranet

c. internet

d. Extranet

The correct **answer** is b

669. IPSec requires a logical connection between two hosts using a signaling protocol called _____. a. PGP

b. TLS

c. AH
d. SA

The correct **answer** is d

670. An _____ is a private network with limited external access that uses the TCP/IP suite.

a. Intranet
b. Extranet
c. Internet
d. internet

The correct **answer** is b

671. The handshake protocol and data exchange protocol are part of _____. a. TLS
b. CA
c. KDC
d. SSH

The correct **answer** is a

672. _____ is a collection of protocols that provide security at the IP layer level. a. TLS
b. SSH
c. IPSec
d. PGP

The correct **answer** is c

673. A method to provide for the secure transport of email is called _____. a. TLS
b. PGP
c. SA
d. IPSec

The correct **answer** is b **674. A VPN uses _____ to guarantee privacy.** a. IPSec
b. Tunneling
c. Both (a) and (b)
d. None of the above The correct **answer** is c

675. A _____ can forward or block messages based on the information in the message itself.

a. Message digest
b. Proxy firewall

c. Packet-filter firewall
d. Private key The correct **answer** is b **676. _____ is an IP layer security protocol that provides privacy as well as integrity and authentication.** a. AH
b. PGP
c. IPSec
d. ESP
The correct **answer** is d **677. _____ is a transport layer security protocol.** a. PGP
b. IPSec
c. TLS
d. AH
The correct **answer** is c
678. An IP datagram carries an authentication header if the _____ field of the IP header has a value of 51. a. Protocol
b. Security parameter index

c. Sequence number
d. Next-header The correct **answer** is a
679. A _____ network is totally isolated from the global Internet.
a. Private
b. Hybrid
c. Virtual private
d. Any of the above The correct **answer** is a
680. A _____ network can use a leased line for intraorganization communication and the Internet for interorganization communication. a. Private
b. Hybrid
c. Virtual private
d. Any of the above The correct **answer** is b **681. In a VPN, _____ encrypted.** a. The inner datagram is
b. Neither the inner nor the outer datagram is
c. The outer datagram is
d. Both inner and outer datagrams are

The correct **answer** is d

682. A _____ can forward or block packets based on the information in the network layer and transport layer headers. a. Proxy firewall

b. Message digest

c. Packet-filter firewall

d. Private key The correct **answer** is c

CS601 FINAL TERM SOLVED MCQs By Faisal Dar
(VISIT VURANK FOR MORE)

_____

1) Which multiplexing technique transmits digital signals?

A) WDM
B) FDM
C) **TDM**
D) None of the above

2) Which multiplexing technique shifts each signal to a different carrier frequency?

A) TDM **B) FDM**
C) Both (a) and (b)
D) None of the above

3) In TDM, for n signal sources of the same data rate, each frame contains _____ slots.

A) 0 to n
B) **n**
C) n + 1
D) n - 1

4) In TDM, the transmission rate of the multiplexed path is usually _____ the sum of the transmission rates of the signal sources.

A) 1 less than
B) **Greater than**
C) Less than
D) Equal to

5) DS-1 through DS-4 are _____ while T-1 through T-4 are _____.

A) Services; signals
B) **Services; lines**
C) Services; multiplexers
D) Multiplexers; signals

6) The sharing of a medium and its link by two or more devices is called _____.

A) Modulation
B) Encoding
C) Multiplexing
D) Line discipline

7) In AT&T's FDM hierarchy, the bandwidth of each group type can be found by multiplying _____ and adding extra bandwidth for guard bands.

A) The sampling rate by 4000 Hz
B) The number of voice channels by 4000 Hz
C) The number of voice channels by 8 bits/sample
D) The sampling rate by 8 bits/sample

8) Guard bands increase the bandwidth for _____.

A) TDM
B) FDM
C) Both (a) and (b)

D) None of the above

9) Which multiplexing technique transmits analog signals?

A) FDM
B) TDM
C) WDM
D) **(a) and (c)**

10) In a T-1 line, _____ interleaving occurs.

A) Bit
B) Byte
C) DS-0
D) Switch

11) Which multiplexing technique involves signals composed of light beams?

A) WDM
B) FDM
C) TDM
D) None of the above

12) The VLF and LF bands use _____ propagation for communications.

A) Space
B) Ground
C) Sky
D) Line of sight

13) Category 1 UTP cable is most often used in _____ networks.

A) Infrared
B) Telephone
C) Fast Ethernet
D) Traditional Ethernet

14) BNC connectors are used by _____ cables.

A) Fiber-optic
B) UTP
C) STP
D) **Coaxial**

15) Which of the following is not a guided medium?

A) Twisted-pair cable
B) Fiber-optic cable
C) Atmosphere
D) Coaxial cable

16) In an environment with many high-voltage devices, the best transmission medium would be _____.

A) Twisted-pair cable
B) Coaxial cable
C) The atmosphere
D) **Optical fiber**

17) _____ cable consists of an inner copper core and a second conducting outer sheath.

A) Coaxial
B) Twisted-pair
C) Fiber-optic
D) Shielded twisted-pair

18) In fiber optics, the signal source is _____ waves.

A) Very low-frequency
B) Light
C) Radio
D) Infrared

19) Smoke signals are an example of communication through _____.

A) A guided medium
B) A refractive medium
C) An unguided medium
D) A small or large medium

20) Which of the following primarily uses guided media?

A) Cellular telephone system
B) Satellite communications
C) Local telephone system
D) Radio broadcasting

21) What is the major factor that makes coaxial cable less susceptible to noise than twisted-pair cable?

A) Outer conductor
B) Inner conductor
C) Diameter of cable
D) Insulating material

22) The RG number gives us information about _____.

A) Optical fibers
B) Twisted pairs
C) Coaxial cables
D) All the above

23) Transmission media are usually categorized as _____.

A) Guided or unguided
B) Fixed or unfixed
C) Determinate or indeterminate
D) Metallic or nonmetallic

24) The _____ is an association that sponsors the use of infrared waves.

A) EIA
B) IrDA
C) FCC
D) PUD

25) In an optical fiber, the inner core is _____ the cladding.

A) Less dense than
B) Denser than

C) The same density as
D) Another name for

26) The inner core of an optical fiber is _____ in composition.

A) Copper
B) Bimetallic
C) Glass or plastic
D) Liquid

27) When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____ occurs.

A) Refraction
B) Reflection
C) Incidence
D) Criticism

28) In _____ propagation, the beam of propagated light is almost horizontal, and the lowdensity core has a small diameter compared to the cores of the other propagation modes.

A) Single-mode
B) Multimode step-index
C) Multimode graded-index
D) Multimode single-index

29) _____ is the propagation method subject to the greatest distortion.

A) Single-mode
B) Multimode step-index
C) Multimode graded-index
D) Multimode single-index

30) In _____ propagation, the core is of varying densities.

A) Single-mode
B) Multimode step-index
C) Multimode graded-index
D) Multimode single-index

31) When we talk about unguided media, usually we are referring to _____.

A) Metallic wires
B) Nonmetallic wires
C) The air
D) None of the above

32) Transmission media are closest to the _____ layer.

A) Application
B) Physical
C) Network
D) Transport

33) Radio wave and microwave frequencies range from _____.

A) 3 to 300 KHz
B) 300 KHz to 3 GHz
C) 3 KHz to 300 GHz

D) 3 KHz to 3000 GHz

34) Optical fibers, unlike wire media, are highly resistant to _____.

A) High-frequency transmission
B) Low-frequency transmission
C) Refraction
D) Electromagnetic interference

35) In _____ propagation, low-frequency radio waves hug the earth.

A) Space
B) Ground
C) Sky
D) Line of sight

36) When the angle of incidence is _____ the critical angle, the light beam bends along the interface.

A) More than
B) Less than
C) Equal to
D) None of the above

37) A parabolic dish antenna is a(n) _____ antenna.

A) Omnidirectional
B) Bidirectional
C) Horn
D) **Unidirectional**

38) The telephone service handled between two LATAs is called _____.

A) An ILEC
B) An IXC
C) A CLEC
D) A POP

39) How many crosspoints are needed in a single-stage switch with 40 inputs and 50 outputs?

A) 2000
B) 90
C) 50
D) 40

)

40 The _____ is a device that connects n inputs to m outputs.

A) Crossbar
B) Crosspoint
C) Modem
D) RAM

41) The established telephone company that provided services in a LATA before 1966 and owns the cabling system is called _____.

A) A CLEC
B) An IXC
C) An ILEC
D) A POP

42) In a crossbar with 1000 crosspoints, approximately how many are in use at any time?

A) 100
B) 250
C) 500
D) 1000

43) The _____ of a TSI controls the order of delivery of slot values that are stored in RAM.

A) Crossbar
B) Crosspoint
C) Transceiver

)

)

D) **Control unit**

44 Which of the following is a time-division switch?

A) TSI
B) TDM bus
C) Crosspoint
D) **(a) and (b)**

45 In a time-division switch, a _____ governs the destination of a packet stored in RAM.

A) Control unit
B) TDM bus
C) Crosspoint
D) Crossbar

46) A telephone network is an example of a _____ network.

A) Circuit-switched
B) Packet-switched
C) Message-switched
D) None of the above

)

D)

)

47) The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

A) Coaxial
B) Fiber-optic
C) Twisted-pair
D) (b) and (c)

48) Trunks are transmission media such as _____ that handle the telephone communication between offices.

A) Twisted-pair cable
B) Fiber-optic cable
C) Satellite links
D) **(b) and (c)**

49 A new telephone company that provides services in a LATA after 1966 is called _____.

A) An ILEC
B) An IXC
C) A POP
D) **A CLEC**

50 If the end office receives two bursts of analog signals with frequencies of 697 and 1477 Hz, then the number _____ has been punched.

A) 1 B) 2 **C) 3**
D) 4

)

D)

)

51) In _____ circuit switching, delivery of data is delayed because data must be stored and retrieved from RAM.

A) Time-division
B) Space-division
C) Virtual
D) Packet

52) Data from a computer are _____; the local loop handles _____ signals.

A) Digital; digital
B) **Digital; analog**
C) Analog; analog
D) Analog; digital

53) To create a _____, combine crossbar switches in stages.

A) TSI
B) **Multistage switch**
C) Crosspoint
D) Packet switch

)

D)

)

54 A traditional telephone line has a bandwidth of _____.

A) 2000 Hz
B) 4000 Hz
C) 2000 MHz
4000 MHz

)

D)

)

55 Which of the following best describes a single-bit error?

A) A single bit is inverted.
B) A single bit is inverted per transmission.
C) A single bit is inverted per data unit.
D) Any of the above

56) Which error detection method uses ones complement arithmetic?

A) Simple parity check
B) Checksum
C) Two-dimensional parity check
D) CRC

57) Which error detection method consists of just one redundant bit per data unit?

A) Two-dimensional parity check
B) CRC
C) Simple parity check
D) Checksum

58) Which error detection method involves polynomials?

)

D)

)

A) **CRC**
B) Simple parity check
C) Two-dimensional parity check
D) Checksum

59 If the ASCII character G is sent and the character D is received, what type of error is this?

Single-bit
Multiple-bit
Burst
Recoverable

60 If the ASCII character H is sent and the character I is received, what type of error is this?

A) Burst
B) Recoverable
C) **Single-bit**
D) Multiple-bit

61) In cyclic redundancy checking, what is the CRC?

A) **The remainder**
B) The divisor
C) The quotient
D) The dividend

)

D)

)

62) Which error detection method involves the use of parity bits?

A) Simple parity check
B) Two-dimensional parity check
C) CRC
D) **(a) and (b)**

63) In cyclic redundancy checking, the divisor is _____ the CRC.

A) The same size as
B) 1 bit more than
C) 1 bit less than
D) 2 bits more than

64 If the data unit is 111111, the divisor 1010, and the remainder 110, what is the dividend at the receiver?

A) 111111011
B) 1010110
C) 111111110
110111111

)

D)

)

65 Which error detection method consists of a parity bit for each data unit as well as an entire data unit of parity bits?

A) Simple parity check
B) Checksum
C) **Two-dimensional parity check**
D) CRC

66) If the data unit is 111111 and the divisor 1010, what is the dividend at the transmitter?

A) 1111110000
B) **111111000**
C) 111111
D) 1111111010

67) If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is _____.

A) Indeterminate
B) 42
C) Even
D) **Odd**

68) In CRC there is no error if the remainder at the receiver is _____.

A) Nonzero
)

D)

)

B) The quotient at the sender
C) Equal to the remainder at the sender
D) **Zero**

69 At the CRC generator, _____ added to the data unit after the division process.

0s are
1s are
The CRC remainder is
The polynomial is

)

D)

)

70 The sum of the checksum and data at the receiver is _____ if there are no errors.

A) **-0**
B) +0
C) The complement of the checksum
D) The complement of the data

71) In CRC the quotient at the sender _____.

A) Becomes the dividend at the receiver
B) Becomes the divisor at the receiver
C) Is the remainder
D) **Is discarded**

72) The Hamming code is a method of _____.

A) Error detection
B) Error correction
C) Error encapsulation
D) **(a) and (b)**

73) At the CRC checker, _____ means that the data unit is damaged.

A) A string of alternating 1s and 0s
B) **A nonzero remainder**
C) A string of 0s

)

)

D) A string of 1s

74 Which error detection method can detect a single-bit error?

A) Simple parity check
B) Two-dimensional parity check
C) CRC
D) **All the above**

75 Which error detection method can detect a burst error?

A) The parity check
B) Two-dimensional parity check
C) CRC
D) **(b) and (c)**

76) At the CRC generator, _____ added to the data unit before the division process.

A) A polynomial is
B) A CRC remainder is
C) 0s are
D) 1s are

77) HDLC is an acronym for _____.

A) High-duplex line communication
B) Half-duplex digital link combination

)

C) High-level data link control

D) Host double-level circuit

78) Flow control is needed to prevent _____.

A) Overflow of the sender buffer

B) Overflow of the receiver buffer

C) Bit errors

D) Collision between sender and receiver

79 In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers?

1 to 63

1 to 64 **0**

to 63

0 to 64

80 For a sliding window of size n - 1 (n sequence numbers), there can be a maximum of _____ frames sent but unacknowledged

A) 0

B) **n**

C) n - 1

D) n + 1

81) When data and acknowledgment are sent on the same frame, this is called _____.

A) Backpacking

B) Piggypacking

)

C) **Piggybacking**
D) A good idea

82) In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

A) Go-Back-N
B) Stop-and-Wait
C) Selective Repeat
D) (a) and (b)

83) ARQ stands for _____.

A) **Automatic repeat request**
B) Automatic retransmission request
C) Acknowledge repeat request
D) Automatic repeat quantization

84) In Go-Back-N ARQ, if frames 4, 5, and 6 are received successfully, the receiver may send an ACK _____ to the sender.

A) 5 B) 6
C) 7
D) **Any of the above**

)

85 The shortest frame in HDLC protocol is usually the _____ frame.

A) Information
B) Management
C) **Supervisory**
D) None of the above

86) The address field of a frame in HDLC protocol contains the address of the _____ station.

A) Primary
B) **Secondary**
C) Tertiary
D) (a) or (b)

87) The HDLC _____ field defines the beginning and end of a frame.

A) Address
B) Control
C) **Flag**
D) FCS

88) A timer is set when _____ is (are) sent out.

A) An ACK
B) A NAK
C) **A data frame**

A)
B) **C)**
D)

)

D) All the above

89) For Stop-and-Wait ARQ, for n data packets sent, _____ acknowledgments are needed.

n - 1
n + 1
n 2n

90 What is present in all HDLC control fields?

A) N(R)
B) N(S)
C) Code bits
D) **P/F bit**

91) If an FDMA network has eight stations, the medium bandwidth has _____ bands.

A) 1 B) 2
C) 8
D) 16

92) In the _____ random-access method there is no collision.

A) CSMA/CD
B) CSMA/CA
C) ALOHA
D) Token-passing

)

93) In the 1-persistent approach, when a station finds an idle line, it _____.

A) Sends immediately
B) Waits 0.1 s before sending
C) Waits 1 s before sending
D) Waits a time equal to 1 - p before sending

94) _____ requires one primary station and one or more secondary stations.

A) Token ring
B) Reservation
C) Polling
D) CSMA

95 In the p-persistent approach, when a station finds an idle line, it _____.

A) Sends immediately
B) Waits 1 s before sending
C) Sends with probability 1 - p
D) **Sends with probability p**

96) A network using the CSMA random-access method with p equal to 0.25 will send _____ percent of the time after accessing an idle line.

A) 50
B) 75
C) 100
D) **25**

)

97) The 1-persistent approach can be considered a special case of the p-persistent approach with p equal to _____.

A) **1.0** B) 2.0 C) 0.1
D) 0.5

98) _____ is a random-access protocol.

A) FDMA
B) CDMA
C) **MA**
D) Polling

99) In the reservation access method, if there are 10 stations on a network, then there are _____ reservation minislots in the reservation frame.

A) **10** B) 11
5
9

)

100 A Walsh table for 16 stations has a chip sequence of _____ chips.

A) **16**
B) 32
C) 4
D) 8

101) _____ is a controlled-access protocol.

A) FDMA
B) TDMA
C) CSMA
D) **Reservation**

102) _____ is (are) a channelization protocol.

A) FDMA
B) TDMA
C) CDMA
D) **All the above**

103) _____ is the access protocol used by traditional Ethernet.

)

C)
D)

)

A) Token ring
B) CSMA
C) **CSMA/CD**
D) CSMA/CA

104 The most primitive random access method is _____.

A) Channelization
B) ALOHA
CSMA
Token passing

105 When a collision is detected in a network using CSMA/CD, _____.

A) The frame is immediately resent
B) The backoff value is decremented by 1
C) **A jam signal is sent by the station**
D) The backoff value is set to 0

106) In the _____ random-access method, stations do not sense the medium.

A) CSMA/CA **B) ALOHA**
C) CSMA/CD
D) Ethernet

107) When a primary device asks a secondary device if it has data to send, this is called _____.

)

)

A) Backing off
B) **Polling**
C) Selecting
D) Reserving

108) If a TDMA network has eight stations, the medium bandwidth has _____ bands.

A) **1** B) 2
C) 8
D) 16

109 If a CDMA network has eight stations, the medium bandwidth has _____ bands.

A) 1
B) 2
8
16

110 If an Ethernet destination address is 08-07-06-05-44-33, then this is a _____ address.

A) Broadcast
B) Unicast
C) Multicast
D) Any of the above

)

)

111) What is the hexadecimal equivalent of the Ethernet address 01011010 00010001 01010101 00011000 10101010 00001111?

A) 5A-11-55-18-AA-0F
B) 5A-88-AA-18-55-F0
C) 5A-81-BA-81-AA-0F
D) 5A-18-5A-18-55-0F

112) Which of the following could not be an Ethernet source address?

A) 8A-7B-6C-DE-10-00
B) 8B-32-21-21-4D-34
C) EE-AA-C1-23-45-32
D) 46-56-21-1A-DE-F4

113) What is the efficiency of 4B/5B block encoding?

A) 60 percent
B) 80 percent
C) 20 percent
D) 40 percent

114 Which of the following could not be an Ethernet unicast destination?

A) 44-AA-C1-23-45-32
B) 46-56-21-1A-DE-F4
C) 48-32-21-21-4D-34
D) 43-7B-6C-DE-10-00

)

)

115 What is the efficiency of 8B/10B encoding?

A) 80 percent
B) 20 percent
C) 40 percent
D) 60 percent

116) A 10-station Ethernet LAN uses a _____-port bridge if the effective average data rate for each station is 2 Mbps.

A) 10
B) 1
C) 2
D) 5

117) A _____-station Ethernet LAN uses a four-port bridge. Each station has an effective average data rate of 1.25 Mbps.

A) 160
B) 80
C) 40
D) 32

118) An 80-station traditional Ethernet is divided into four collision domains. This means that a maximum of _____ stations contend for medium access at any one time.

A) **20** B) 76
C) 80
D) 320

)

)

119 If an Ethernet destination address is 07-01-02-03-04-05, then this is a _____ address.

A) Unicast
B) Broadcast
C) Multicast
Any of the above

120 What is the efficiency of a frame in half-duplex Gigabit Ethernet carrying 46 bytes of data?

A) 97 percent
B) 70 percent
C) 56 percent
D) 56 percent

121) Which of the following could not be an Ethernet multicast destination?

A) B7-7B-6C-DE-10-00
B) 7C-56-21-1A-DE-F4
C) 7B-AA-C1-23-45-32
D) 83-32-21-21-4D-34

122) Which of the following is a four-wire Gigabit Ethernet implementation?

A) 1000Base-SX
B) 1000Base-LX
C) 1000Base-T
D) 1000Base-CX

)

)

123) Forty stations are on an Ethernet LAN. A 10-port bridge segments the LAN. What is the effective average data rate of each station?

A) 1.0 Mbps
B) 2.5 Mbps
C) 2.0 Mbps
D) 5.0 Mbps

(VISIT VURANK FOR MORE)

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)

CS601-Data Communication
FINAL TERM MCQS
Prepared by: JUNAID MALIK

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ALL answers are verified if found any mistake then Correct ACCORDINGLY

Question No: 1

Ethernet Address is of----------bytes

- **4**
- **6**
- **8**
- **12**

Question No: 2

In Pure ALOHA, the vulnerable time is ---------- the frame transmission time.

- **Same as**
- **Two times**
- **Three times**
- **Four times**

Question No: 3

_____ was used as a medium in 10 Base-T

- Thick coaxial Cable
- Think coaxial Cable
- Twisted Pair Cable
- Two Mode For Cable

Question No: 4

When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- physical
- transport
- application
- none of the given

Question No: 5

In _____encoding, we use three levels: positive, zero, and negative.

- polar
- nonpolar
- mmultilevel
- bipolar

Question No: 6

A periodic signal completes one cycle in 0.001 s. What is the frequency?

- 1 Hz
- 100 Hz
- 1 KHz
- 1 MHz

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Question No: 7

There are _____ basic modes for the propagation of light in fiber-optic cables.

- 3
- 4
- 5
- 2

Question No: 8

A parabolic dish antenna is a(n) _____ antenna.

- Omnidirectional
- Bidirectional
- Horn
- Unidirectional

Question No: 9

Zero crossing bandwidth is also called as equivalent noise bandwidth.

- True
- False

Question No: 10

During the transmission, transmitting device produces a high frequency signal which acts as a basis for the transmission. This base signal is called _____.

- Analog signal
- Digital signal Not Confirm
- Modulated signal
- Carrier signal

Question No 11:

There are _____ types of serial transmission:

- 1
- 2
- 3
- 4

Question No 12:

Synchronous transmission have _____.

- a start bit
- a stop bit
- gaps between bytes
- none of the given

Question No 13

Using _____ encoding scheme in digital transmission, we represent 0 by zero voltage level and represent 1 by any positive voltage level.

- Polar
- AMI
- Bipolar
- Unipolar

Question No 14

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_____ is the formula for finding number of bits sent per level.

- Log L
- Log2
- Log2*2
- Log2 L

Question No 15

Which of the following is an example of ITU-T modem standards:?

- T-series
- X-series
- N-series
- V-series

Question No 16

The maximum data rate in the uploading direction is still _____.

- 26.6 Kbps
- 33.6 Kbps
- 36.6 Kbps
- 46.6 Kbps

Question No 16

In _____ each station is forced to send a frame only at beginning of time slot

- Pure ALOHA
- Slotted ALOHA
- Fragmented ALOHA
- None of the given

Question 17

In _____ each station sends a frame whenever it has a frame to send

- Pure ALOHA
- Slotted ALOHA
- Fragmented ALOHA
- None of the given

Question No 18

The data rate of a T-1 line is _____.

- 1.544 Gbps
- 2.544 Mbps
- 1.544 Kbps
- 1.544 Mbps

Question 19

Circuit switched networks have _____ efficiency but _____ delay compared to the packet switched networks.

- high, minimal

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- high, high
- low, minimal

Question No 20

Category 5 UTP cable is used for data transmission of upto_____.

- 100 Mbps
- 200 Mbps
- 250 Mbps
- 400 Mbps

Question No 21

All of popular Fiber optic connectors are _____ shaped.

- Conical
- Barrel
- Circular
- Rectangular

Question No 22

SONET stands for _____

- synchronous optical network
- synchronous operational network
- stream optical network
- shell operational network

Question No 23

Fast Ethernet has a data rate of _____Mbps.

- 10
- 100
- 1000
- 10,000

Question No 24

The VLF and LF bands use _____ propagation for communications.

- Ground
- Sky
- Line of sight
- Space

Question No 25

In Bit-oriented framing, _____ bit pattern is used as a flag to define beginning and end of a frame.

- $(11111111)_2$
- $(10000001)_2$
- Single
- $(01111110)_2$

Question No 26

Traditionally, _____ protocols have been defined for the data-link layer to deal with flow and error control.

- Two
- Three

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- Five
- Four

Question No 27
Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- Single
- Multi
- Single and Multi
- none of the given

Question N0 28
Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- Interleaving
- Addition
- Substraction
- None of the given

Question No 29
_____ takes data from one high speed line and breaks it into portions.

- Multiplexing
- Inverse multiplexing
- Inverse subtraction
- Inverse addition

Question No 30
For Carrier Sense Multiple Access/Collision Detection (CSMA/CD) we need a restriction on the _____

- Collision Size
- Signal Size
- Frame Size
- Station Size

Question No 31:
In Y-MODEM Multiple files can be sent simultaneously

- True
- False

Question No 32
At the data-link layer, _____ protocol is designed to handle both flow and error control, but communication is one frame at a time.

- Simple
- Go-Back-N
- Selective-Repeat
- **Stop-and-Wait**

Question No 33

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The PPP protocol uses _____, which is responsible for establishing, maintaining, configuring, and terminating links.

- Internet Protocol Control Protocol (IPCP)
- Challenge Handshake Authentication Protocol (CHAP)
- Network Control Protocols (NCPs)
- **Link Control Protocol (LCP)**

Question No 34

Aloha, CSMA/CD and CSMA/CA are part of _____.

Controlled Access protocol
Channelization protocol
Mutual access protocol
Random Access protocol

Question No 35

Which of the following is an example of ITU-T modem standards:

- T-series
- X-series
- N-series
- V-series

Question No 36

The maximum data rate in the uploading direction is still _____.

- 26.6 Kbps
- 33.6 Kbps
- 36.6 Kbps
- 46.6 Kbps

Question No 37

Category 5 UTP cable is used for data transmission of upto_____.

- 100 Mbps
- 200 Mbps
- 250 Mbps
- 400 Mbps

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Question No 38

ALOHA the earliest random access method was developed in early_____.

1950s
1960s
1980s
1970s

Question No 39

In block coding, we divide our message into blocks, each of ____ bits; and add _____ redundant bits to each block to make the codewords of ____ bit length.

m, r, c

n, k, r
n, r, k
k, r, n

Question No 40

All of popular Fiber optic connectors are _____ shaped.

- Conical
- Barrel
- Circular
- Rectangular

Question No 41

MAC stand for ____

- Media Access Controller
- Main Access Control
- Mandatory Access Control
- Media Access Control

Question No 42

Which one of the following is a Random-Access protocol

- CDMA/CA
- ALOHA
- CDMA/CD
- TDMA

Question No 43

The VLF and LF bands use _____ propagation for communications.

- Ground
- Sky
- Line of sight
- Space

Question No 44

Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- Single
- Multi
- Single and Multi
- none of the given

Question No 45

Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- Interleaving
- Addition
- Subtraction
- None of the given

Question No 46

CDMA stands for _____

- Carrier Data Multiple Access
- Code Division Multiple Access
- Code Data Multiple Access
- Carrier Division Multiple Access

Question No 47

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In Ethernet, the source address field in the MAC frame is the _____ address.

- Sender's logical
- Previous station's physical
- Next destination's physical
- Sender's service port

Question No 48

_____ takes data from one high speed line and breaks it into portions.

- Multiplexing
- Inverse multiplexing
- Inverse subtraction
- Inverse addition

Question No 49

A traditional telephone line has a bandwidth of _____.

- 2000Hz
- 4000 Hz
- 2000 MHz
- 4000 MHz

Question No 50

To detect five errors, the Hamming distance between each pair of codewords should be at least_____.

- 4
- 5
- 11
- 6

Question No 51

For FEC using XOR operation, we divide a packet into N chunks, and need to send _____ chunks to the receiver side.

- N
- 2N
- (N+1)/2
- N+1

Question No 52

If the ASCII character H is sent and the character I is received, what type of error is this?

- Single-bit
- Multiple-bit
- Burst
- Recoverable

Question No 53

At the CRC generator, _____ added to the data unit after the division process

- 0s are
- 1s are
- The polynomial
- The CRC remainder is

Question No 54

Error control in the data link layer is based on _____

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- automatic repeat request
- automatic repeat acknowledgment
- automatic send acknowledgment

Question No 55
In a technique called, compounding High-and-Low Resolution Packets, the low-resolution section in the first packet is _____.

- CRC Not Sure
- Parity code
- Empty

Question No 56
In line discipline the initiator first transmits a frame called an _____

- Enquiry
- Acknowledgment
- NAK
- Reques

Question No 57
Primary device uses _____ to receive transmission from the secondary devices.

- ACK Not Sure
- ENQ
- POLL

Question N0 58
Token Bus has no commercial application in data communications

- True
- False

Question No 59
HDLC is an acronym for _____.

- High-duplex line communication
- High-level data link control
- Half-duplex digital link combination
- Host double-level circuit

Question No 59
The BNC-T connector is a T-shaped device with _____ ports

- Three
- Two
- Four
- Five

Question No 60
Each station in the Token Ring regenerates the frame.

- True
- False

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Question No 61

Repeater works on _____ layer.

- Data Link
- Physical
- Network
- Application

Question No 62

Trunks are transmission media such as _____ that handle the telephone to the nearest end office.

- Satellite links
- Twisted-pair & Fiber-optic
- Twisted-pair
- Fiber-optic

Question No 63

At the data-link layer, _____ protocol is designed to handle both flow and error control, but communication is one frame at a time.

- Simple
- Go-Back-N
- Selective-Repeat
- **Stop-and-Wait**

Question No 64

The PPP protocol uses _____, which is responsible for establishing, maintaining, configuring, and terminating links.

- Internet Protocol Control Protocol (IPCP)
- Challenge Handshake Authentication Protocol (CHAP)
- Network Control Protocols (NCPs)
- **Link Control Protocol (LCP)**

Question No 65

The original Ethernet technology with the data rate of 10 Mbps is called _____?

- Standard Ethernet
- Fast Ethernet
- Gigabit Ethernet
- 10 Gigabit Ethernet

Question No 66

Normally the value of Kmax in pure ALOHA is _____.

- 10
- 15
- 25
- 30

Question No 67

Which one of the following is not a Channelization Protocol?

- CSMA
- CDMA

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- FDMA
- TDMA

Question No 68
In CSMA/CA _____ is the amount of time divided into slots.

- Contention Window
- Interframe Window
- Fragmented Window
- Collided Window

Question No 69
Aloha, CSMA/CD and CSMA/CA are part of _____.

Controlled Access protocol
Channelization protocol
Mutual access protocol
Random Access protocol

Question No 70
ALOHA the earliest random access method was developed in early_____.

- 1950s
- 1960s
- 1980s
- 1970s

Question No 71
For FEC using XOR operation, we divide a packet into N chunks, and need to send _____ chunks to the receiver side.

N
2N
(N+1)/2
N+1

Question No 71
The _____ layer is responsible for the creation and delivery of a frame to another node, along the link.

- Application
- Network
- Physical
- Data-link

Question No 72
IP addresses are the identifiers at the _____ layer.

- Physical
- Data-link
- Transport
- Network

Question No 73
Each host or each interface of a router is assigned _____ address.

- A multicast
- A broadcast
- Both multicast or broadcast

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- A unicast

Question No 74

The ARP protocol is one of the auxiliary protocols defined in the _____ layer, which maps an IP address to a logical-link address.

Physical
Data-link
Transport
Network

Question No 75

Following are the examples of connecting devices EXCEPT _____ .

- Link Layer Switches
- Hub
- Routers
- Wire

Question No 76

_____ eliminates collision and connect heterogeneous devices.

- Hub
- Repeater
- Bridge
- Switch

Question No 77

_____ creates looping problem in learning switch.

- Unicast
- Multicast
- None of the Given
- Broadcast

Question No 78

The term FTTC stands for _____ .

Front Technology Terminal Connection

Free Technology Transmission Connection

Fiber Terminal Transmission Commission

Fiber to the Curb

Question No 79

Multiple-access Protocol is divided into_____.

Two categories
Four categories
Five categories
Three categories

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Question No 80
The original Ethernet technology with the data rate of 10 Mbps is called _____ Ethernet.

Fast
Gigabit
10 Gigabit
Standard

Question No 81
CSMA/CD is not used in _____ Ethernet.
Standard
Fast
Gigabit
10 Gigabit

Question No 82
The amplitude of a digital signal depends upon the_____ to represent a bit.
Phase
Wavelength
Bandwidth
Voltage

Question No 83
In IEEE 802.11, a station with _____mobility can move from one BSS to another, but the movement is confined inside one ESS.
None of the choices are correct
No-transition
ESS-transition
BSS-transition

Question No 84
In IEEE 802.11, communication between two stations in two different BSSs usually occurs via two _____.
BSSs
ESSs
None of the given
Aps

Question No 89
A property of a signal where it is being received by receiver after reflection from different intermediate objects (Building, iron polls, walls) is called _____

- Attenuation
- Interference
- Error
- Multipath Propagation

Question No 90
_____ medium is used in wireless LANs for transportation of data.

Copper pair cable

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Optical fiber cable
Coaxial cable
Air

Question No 91
In context of control signaling network, what does STP stand for _____

- Shielded twisted pair
- Signaling transmission point
- Signal transportation procedure
- **Signal transfer point**

Question No 92
POP stands for _____

- Presentation of points
- Points of points
- Points of packets
- **Points of Presence**

Question No 93
What does LATA stand for _____

- Local Area Transmission Arena
- Local-Access Transit Access
- Local-Areas Transport Areas
- **Local-Access Transport Areas**

Question No 94
Unipolar encoding scheme is not supported over the medium having _____.

- The capability of handling DC component
- Low speed
- High speed
- No capability of handling DC component

Question No 95
The amplitude of a digital signal depends upon the_____ to represent a bit.

- Phase
- Wavelength
- Bandwidth
- Voltage

Question No 96
Transmission Control Protocol is a(n) _____ layer protocol

- Application
- Network
- Session
- Transport

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Question No 97

In _____ each station is allotted a time slot during which it can send data

- NDMA
- CDMA
- TDMA
- FDMA

Question No 98

In _____ collisions are avoided by deferring transmission even if the channel is idle

- The Slotted Frame
- The Deployment Frame
- The Contention Window
- The Interframe Space

Question No 99

In the context of Ethernet Implementations, maximum medium length of 10 Base-F was _____ meters.

- 500
- 1000
- 2000
- 150

Question No 100

Collisions in CSMA/CA are avoided through _____

- The Interframe Space
- The Contention Window
- Acknowledgments
- All of the given

1. The extra bits added with the original data for error detection/correction are called
   - Process IDs
   - Redundant bits
   - Fault bits
   - Port Number
2. _____are used to exchange session management and control between connected devices.
   - U-frames
   - N-frames
   - S-frames
   - I-frames
3. The message 1110 sent by source is received by a destination as 1011.This is ____types of err.
   - Hamming
   - Single-Bit
   - Uni-Bit
   - Brust
4. In Block code we divide our message into blocks of K bits called as_____
   - Password
   - Code word

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- Data words
- Cross words

5. DLC in Data Link Layer stand for_____
   - Demand Link coordination
   - Data Line Code
   - Data Link Control
   - Divide Line Communication
6. _____is responsible for governing node to node Communication.
   - Data Link Layer
   - Session Layer
   - Presentation Layer
   - Application Layer
7. Go-Back-N protocol is one of the _____Layer protocol, which is used to control the flow of data during the transmission
   - Presentation
   - Network
   - Data Link
   - Physical
8. Error correction in more _____than the erro detection.
   - Useless
   - Informal
   - Difficult
   - Easy
9. Stop-and-Wait protocol is used for____
   - Flow control Only
   - Neither flow nor error control
   - Both flow and error control
10. ____is not a function of Data Link control
    - Framing
    - Error Control
    - Flow Control
    - Modulation
11. Payload filed of the PPP frame is of variables Size and it can carry maximum Data up to_____
    - 10 Bytes
    - 500 Bytes
    - 100 Bytes
    - 1500 Bytes
12. In Block Coding Scheme, number of Code word is always _____data wods.
    - Equal to
    - same as
    - Greater Then
    - Less then

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13. High-Level Data Link Control(HDLC) defines___types of frames to deal with the transfer modes.
    - Three
    - Two
    - Four
    - Six
14. Congestion control is a feature of _____layer(S)
    - Transport
    - All Mentioned
    - Network
    - Data Link
15. Error detection and correction are the services provided by _____Layer.
    - Physical Layer
    - Application Layer
    - Data Link Layer
    - Session Layer
16. IN Linear Block codes,___of two valid code words creates another valid code word.
    - AND
    - OR
    - XOR
    - NOR
17. Stop-and-Wait protocol is used for_____
    - Bothe flow and error control
    - Error control Only
    - Flow control Only
    - Nether flow nor error control
18. CHAP is an Authentication protocol, which uses_____process to authenticate user information.
    - Four way
    - Three Way
    - Two Way
    - Five way
19. Data link layer is divided into ____sub Layer
    - Seven
    - Two
    - Five
    - Three
20. If we need to correct a single error in an 8-bit data unit, we need to consider_____possible error location.
    - 16
    - 2
    - 8
    - 4

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21. ____is not a function of Data Link Control.
    - Framing
    - Modulation
    - Flow control
    - Error control
22. The _____ is the number of single elements sent per unit time.
    - Single rate
    - Period
    - Bit rate
    - Data rate
23. In ASK, both_____and_____remain constant.
    - Amplitude, Frequency
    - Amplitude, phase
    - **Frequency, Phase**
    - Amplitude, Samples
24. In an analog hierarchy to carry voice channels, a group can carry _____voice channels.
    - 60
    - 12
    - **20**
    - 10
25. Which of the following sublyer resolves the contention for theshared media.
    - **MAC**
    - LLC
    - Physical
    - None of the given.
26. What is the period of a Sine wave having frequency of 5 Hz?
    - **0.2**
    - 0.1
    - 0.5
    - 0.3
27. In CRC there is no error if the remainder at the receiver is _____.
    - Equal to the remainder at the sender
    - **Zero**
    - Nonzero
    - The quotient at the sender
28. Analog To Analog Conversion Methods include_____.
    - **AM, PM and FM**
    - AM, FSK and PM
    - AM, PM and QAM
    - None of the given
29. Signals travel through fiber optic cable are in the form of _____.

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- **Light**
- Bits
- Electromagnetic
- Bytes

30. If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.
    - **≠ 0**
    - = 0
    - ≠ 1
    - = 1
31. The flag in PPP is a byte that needs to be_____whenever it appears in the data section of the frame.
    - Duplicated
    - Blocked
    - Cleaned
    - **Escaped**
32. _____is normally used where speed is priority in datatransfer.
    - **Serial data transmission**
    - Hybrid data transmission
    - Parallel data transmission
    - Both parallel and serial data transmission
33. Baud rate is greater than or equal to the bit rate.
    - True
    - **False**
34. _____is an Authentication Protocol, which is used by the PPPto authenticate passwords.
    - CHAP
    - **PAP**
    - LCP
    - ICMP
35. In Pure ALOHA, the vulnerable time is_____the frame transmission time.
    - Same as
    - **Two times**
    - Three times
    - Four times
36. A broadcast signal is received by the orbiting satellites whichrebroadcasts_.
    - to the resender
    - to the sender
    - to the atmosphere
    - **none of the given**

37. In TCP/IP protocol suite, the process of adding header at eachlayer on sending side is known as_____.

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- Encapulation
- De-encapulation
- **Packetizing**
- Framing

38. By using_____system, change in the file contentsduring file transmission can be avoided.
    - Routing
    - Flow Control
    - **Error Detection and Correction**
    - Congestion Control
39. Which of the following consist of just one redundant bit per dataunit?
    - Two dimensional Parity check.
    - CRC
    - **Simple Parity Check**
    - Checksum
40. If duration of noise is decreased during a transmission over noisychannel, fixed data rate of the channel will cause _____number of bits being impacted by the noise.
    - Constant
    - **More**
    - Less
    - Zero
41. The extra bits added with the original data for errordetection/correction are called_____.
    - Fault bits
    - Port numbers
    - **Redundant bits**
    - Process IDs
42. Flow control is needed to prevent_____.
    - Bit errors
    - Overflow of the sender buffer
    - **Overflow of the receiver buffer**
    - Collision between sender and receiver
43. The inversion of the level represents a 1 bit in_____encoding
    - **NRZ-I**
    - NRZ-L
    - RZ
    - Manchester
44. The term_____means that only one bit of a given data unit ischanged from 1 to 0 or from 0 to 1.
    - Packet Error
    - Burst Error
    - **Single Bit Error**
    - Character Error

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45. A sine wave is defined by_____characteristics.
    - 2
    - **3**
    - 4
    - 5

46. Quadrature Amplitude Modulation (QAM) is the combination of _____and_____.
    - **FSK, PSK**
    - PSK, FSK
    - ASK, PSK
    - ASK, FSK

47. If we need to correct a single error in an 8-bit data unit, we needto consider _____possible error locations.
    - **16**
    - 2
    - 4
    - 8

48. To calculate the data rate for noisy channel_____formula is used.
    - **Shannon**
    - Nyquist
    - Propagation
    - Greedy

49. GO-BACK-N protocol is one of the_____layer protocols, which is used to control the flow of data during the transmission.
    - Physical
    - **Network**
    - Presentation
    - Data link

50. A_____modem is used to connect two DTEs directly.
    - **'NULL**
    - Cable
    - DSL
    - None of the given

51. Time division multiplexing is used in_____systems.
    - Analog
    - Hybrid
    - **Digital**
    - Automated

52. In OSI model headers are added at layer_____.
    - 1,2,3 only
    - 6,5,7 only
    - 5,4,3 only

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- **6,5,4,3,2 only**

53. Line Configuration refers to the way two or more devices attachto a_____.
    - Path
    - Circuit
    - **Link**
    - Router
54. A sine wave is_____.
    - periodic and discrete
    - aperiodic and discrete
    - **periodic and continuous**
    - aperiodic and continuous
55. The logical connection between the peer layers is _____connection.
    - Physical
    - Direct
    - Indirect
    - **Tengible**
56. What is the frequency of a sine wave if it completes one cycle in2 seconds?
    - **0.5**
    - 0.6
    - 0.3
    - 0.2
57. In Synchronous TDM, Time slots are not same in number asinput devices.
    - True
    - **False**
58. _____category of coaxial cable is used for thin Ethernet.
    - **RG-58**
    - RG-59
    - RG-1
    - RG-47
59. Radio wave transmission utilizes_____different types of propagation.
    - Two
    - Three
    - Four
    - **Five**
60. BSC supports_____transmission using _____ flow control.
    - Full-duplex, Stop and wait ARQ
    - Half-duplex, Selective reject ARQ
    - Full-duplex, Selective reject ARQ
    - **Half-duplex, Stop and wait ARQ**
61. In selective-reject ARQ, only the specific damaged or lost frameis_.
    - **Retransmitted**
    - Forwarded
    - Selected

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- Rejected

62. Error detection and correction are the services provided by _____layer.
    - **Data link layer**
    - Application layer
    - Physical layer
    - Session layer
63. The___generates the data and passes it along withany control information to a____.
    - **DTE, DCE**
    - DCE, DTE
    - DTE, DTE
    - DCE, DCE

64. Analog refers to something that is continuous in_____.
    - **Time**
    - Space
    - Frequency
    - None of the given
65. Time domain shows changes in_____.
    - time w.r.t signal amplitude
    - **signal amplitude w.r.t time**
    - time
    - All of the given
66. Mr. Asif while sitting in Lahore is talking with his friend in Dubaithrough Skype is an example of_____.
    - Local Area Network
    - **Metropolitan Area Network**
    - Wide Area Network
    - Home Based Network
67. Which level of the TCP/IP reference model routesdata/information across a network channel?
    - Application Layer
    - Data Link Layer
    - Transport Layer
    - **Network Layer**
68. There are_____types of serial transmission.
    - 3
    - 4
    - **2**
    - None of the given
69. Latency is made of_____components.
    - **Two**
    - Three

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- Four
- Five

70. Like 10 Base 5, 10 Base 2 is a_____topology LAN.
    - Ring
    - Mesh
    - Star
    - **Bus**

71. _____is the rate of change with respect to time.
    a. Voltage
    b. Time
    c. Frequency
    d. Amplitude

72. Two or more computers connected so that they can communicate with each other and share information is called a _____.
    - satellite
    - protocol
    - broadcast
    - **network**

73. Which error detection method consists of a parity bit for each unit aswell as an entire data unit of parity bits?
    - Checksum
    - Cyclic Redundancy Check (CRC)
    - **Longitudinal Red Check (LRC)**
    - Vertical Redundancy Check (VRC)

74. Central Hub in a Tree is an_____.
    - **Active hub**
    - passive hub

75. Time domain plot show changes in signal phase with respect to time.
    - true
    - **false**

76. _____is an Authentication Protocol, which uses two-step processto authenticate user information.
    - CHAP
    - LCP
    - **PAP**
    - ICMP

77. CHAP is an Authentication Protocol, which uses_____process to authenticate user information.
    - Two-way
    - **Three-way**
    - Four-way
    - Five-way

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78. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____ .
    - Virtual LANs
    - **Two adjacent nodes**
    - Ethernet links
    - Source and destination PCs
79. Encoding digital data into digital signals is called _____ .
    - Analog-to-Digital Conversion
    - **Digital-to-Digital Conversion**
    - Digital-to-Analog Conversion
    - None of the given
80. _____encoding is almost obsolete today
    - Bipolar
    - **Unipolar**
    - Polar
    - None of the given
81. The Internet is_____.
    - software for sending e-mail around the world
    - a government-owned agency that links computers
    - **a global network of computers networks**
    - a specialised form of local area network
82. PSK is susceptible to the noise degradation.
    - True
    - **False**
83. Low pass channel has_____bandwidth between two stations.
    - **Dedicated**
    - Shared
    - Multiplexed
    - Infinite
84. In ASK, Noise usually affects the_____.
    - **Amplitude**
    - Phase
    - Sample
    - Frequency
85. The flag in PPP is a byte that needs to be_____whenever it appears in the data section of the frame.
    - Duplicated
    - Blocked
    - Cleaned
    - **Escaped**
86. Which of the following is not a characteristic of a sine wave?
    - Amplitude
    - **Segmentation**
    - Phase

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- Frequency

87. In statistical time division multiplexing, number of slots in frame areless than___.
    - Output data rate
    - **Input lines**
    - Input frequency
    - Multiplexed T lines
88. If a digital signal has "L" number of levels._____is the numberof bits required to represent each level.
    - **Log L**
    - Log Base 2 L
    - L Square
    - Log(2*L)
89. _____is responsible for governing node to node communication.
    - Application Layer
    - Session Layer
    - **Data Link layer**
    - Presentation Layer
90. The original Ethernet technology with the data rate of 10 Mbps is called_____ ?
    - **Standard Ethernet**
    - Fast Ethernet
    - Gigabit Ethernet
    - 10 Gigabit Ethernet
91. What is the period of a Sine wave having frequency of 2 Hz?
    - 0.2
    - 0.1
    - **0.5**
    - 0.3
92. In line discipline after the data transmission, the sending system finishes with an _____
    - **EOT**
    - EKT
    - ENT
    - ESP
93. __are used for Multi cas communication, such as radio and Television.
    - Microwaves
    - Radio Waves
    - Light waves
    - Infrared Waves

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CS601-Data Communication

FINAL TERM SUBJECTIVE

Prepared by: JUNAID MALIK

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Question No: 1

Define Three Types of Cast

Data is transported over a network by three simple methods i.e. Unicast, Broadcast, and

Multicast. So let's begin to summarize the difference between these three:

- Unicast: from one source to one destination i.e. One-to-One
- Broadcast: from one source to all possible destinations i.e. One-to-All
- Multicast: from one source to multiple destinations stating an interest in receiving the traffic i.e. One-to-Many

Question No: 2

RJ Stands for?

RJ stands for Registered Jack in Data Communication which a connector used for UTP cable.

Question No: 3

Write Full Form of Channelization Protocol

Ans:

- DMA (Frequency Division Multiple Access)
- TDMA (Time-Division Multiple Access)
- CDMA (Code Division Multiple Access)

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Question No: 4

What is ARP how does it works?

Ans:

ARP stands for Address Resolution Protocol. When you try to ping an IP address on your local network, say 10.12.2.1, if there is a value cached, ARP is not used. If the IP address is not found in the ARP table, the system will then send a broadcast packet to the network using the ARP protocol to ask "who has 10.12.2.1All system received broadcast but only intended system response with MAC address

Question No: 6

Difference between Hub, Switch and Router

Hub

Hub is commonly used to connect segments of a LAN (Local Area Network).
A hub contains multiple ports.
When a packet arrives at one port, it is copied to the other ports so that all segments of the LAN can see all packets. Hub acts as a common connection point for devices in a network.

Switch

A switch operates at the data link layer (layer 2) and sometimes the network layer (layer 3) of the OSI (Open Systems
Interconnection) Reference Model and therefore support any packet protocol.
LANs that use switches to join segments
are called switched LANs or, in the case of Ethernet networks, switched Ethernet LANs.
In networks, the switch is
the device that filters and forwards packets between LAN segments.
See more information on Network
Switch and Selection Suggestions.

Router

A router is connected to at least two networks, commonly two
LANs or WANs (Wide Area Networks) or a

LAN and its ISP.s (Internet Service Provider's) network.
The router is generally located at gateways,
the places where two or more networks connect. Using headers and
forwarding tables, router determines
the best path to forward the packets. In addition, router uses protocols such as ICMP (Internet Control Message Protocol) to communicate with each other and configures the best route between
any two hosts. In a word, router forwards data packets along with networks.

Question No: 7

Abbreviation of the following

- DLC (Data Link Control)
- FSM (Finite State Machine)
- POTS (Plain old telephone service)
- FTTC (Fiber to the Curb)

Question No: 8

HDLC Frame

Ans:

Types of HDLC Frames

- There are three types of HDLC frames. The type of frame is determined by the control field of the frame −
- I-frame − I-frames or Information frames carry user data from the network layer. They also include flow and error control information that is piggybacked on user data. The first bit of control field of I-frame is 0.
- S-frame − S-frames or Supervisory frames do not contain information field. They are used for flow and error control when piggybacking is not required. The first two bits of control field of S-frame is 10.
- U-frame − U-frames or Un-numbered frames are used for myriad miscellaneous functions, like link management. It may contain an information field, if required. The first two bits of control field of U-frame is 11.

Question No: 9

Difference between data word and code word

Ans:

- We divide our message into blocks, each of 'k' bits, called data words

- We add ‘r’ redundant bits to each block to make the length ‘n = k + r’
- The resulting ‘n-bit’ blocks are called code words

Question No: 10

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Ans:

- Framing is a point-to-point connection between two computers or devices consists of a wire in which data is transmitted as a stream of bits. Source & Destination Address
- Flow control is a technique that allows two stations working at different speeds to communicate with each other.
- Error control in data link layer is the process of detecting and correcting data frames that have been corrupted or lost during transmission.

Question No: 11

Variable Framing Techniques

- **Character-oriented framing**

  In character - oriented framing, data is transmitted as a sequence of bytes, from an 8-bit coding system like ASCII.

- **Bit-oriented framing**

  In bit-oriented framing, data is transmitted as a sequence of bits that can be interpreted in the upper layers both as text as well as multimedia data.

Question No: 12

Configurations & Transfer Modes in HDLC

Ans:

- HDLC supports two types of transfer modes, normal response mode and asynchronous balanced mode.
- Normal Response Mode (NRM) − Here, two types of stations are there, a primary station that send commands and secondary station that can respond to received commands. It is used for both point - to - point and multipoint communications.
- Asynchronous Balanced Mode (ABM) − Here, the configuration is balanced, i.e. each station can both send commands and respond to commands. It is used for only point - to - point communications.

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Question No: 13

What is CONTROLLED ACCESS and its types?

Ans:

- The stations consult one another to find which station has the right to send
- A station cannot send unless authorized by other stations
- Three controlled-access methods:
- Reservation
- Polling
- Token Passing

Question No: 14

Stop and Wait Flow Control

Ans:

- This protocol involves the following transitions −
- The sender sends a frame and waits for acknowledgment.
- Once the receiver receives the frame, it sends an acknowledgment frame back to the sender.
- On receiving the acknowledgment frame, the sender understands that the receiver is ready to accept the next frame. So it sender the next frame in queue.

Question No: 15

Which form of signal represents binary 1 and 0 by positive and negative voltage level?

Answer

In Bipolar encoding scheme, zero **level represents binary 0**, and **binary 1** is **represented** by alternating **positive and negative voltages**. If the first **1** bit is **represented** by **positive** amplitude, then the second **1** bit is **represented** by **negative voltage**, third **1** bit is **represented** by the **positive** amplitude and so on The signal represents binary 1 and 0 by positive level then the negative level is signal represents binary 0 and 1 is negative level. the Baud Rate and minimum Bandwidth for FSK signal transmitted at 3000 bps by assuming that transmission medium is in half duplex mode and carrier must be separated by 4000 Hz. Using AMI encoding scheme in digital transmission, we represent 0 by zero voltage level and represent 1 by any positive voltage level.

Question No: 16

Distinguish between Slotted aloha and Pure aloha.

Answer

In **pure ALOHA**, whenever a station has data to send it transmits it without waiting whereas, in **slotted ALOHA** a user waits till **the** next time **slot** beings to transmit **the** data. In **pure ALOHA the** time is continuous whereas, in **Slotted ALOHA the** time is discrete and divided into slots. Jun 23, 2016 Description. **Aloha** in computer networks is an access control protocol. Versions of **Aloha** Protocol- **Pure Aloha** and **Slotted Aloha**. **Pure Aloha** in networking allows the stations to transmit the data at any time. **Slotted Aloha** Protocol allows the stations to transmit data only at the beginning of the time **slot**.

ALOHA the earliest random access method was developed in early in 1960s the distinguish between Slotted aloha and Pure aloha in the data communication its work different before the 1960 people never know the aloha after the 1960s people were know the slotted aloha and pure aloha.

Question No: 17

If we want to be able to detect 4-bit errors, what should be the minimum Hamming distance? Answer with the help of formula.

Answer

Valid code words: 2 power 8 = 256 b. Invalid code words: 2 power 10 – 2 power 8 = 768 Q10-6.

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Question No: 18

If we want to be able to detect two-**bit errors what should be the minimum Hamming distance**?

Ans:

Hamming distance = s+1 Since s = 2**Hamming distance** = 2+1 = 3 Q10-8.

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Question No: 19

What is the minimum Hamming distance?

Ans:

The **minimum distance** between any two vertices is the **Hamming distance** between the two binary strings.

Question No: 20

Normally a telephone network is divided into several levels of switching offices, mention their names.

Answer

The telephone network has several levels of switching offices:

- End offices
- Tandem offices
- Regional offices

Question No: 21

If four computers are connected with wireless NIC in a LAN architecture like isolated LAN in wired network. What do we call such networks?

Answer

If four computers are connected with wireless NIC in a LAN architecture like isolated LAN in wired network. Then we call this type of networks Multicast because into the timing the four computer are connected with wireless NIC in a local area network so that we called it's a multicast network

Question No: 22

Find the Baud Rate and minimum Bandwidth for FSK signal transmitted at 3000 bps by assuming that transmission medium is in half duplex mode and carrier must be separated by 4000 Hz. Write all necessary steps, formulas a

Answer

The Baud Rate and minimum Bandwidth for FSK signal transmitted at 3000 bps by assuming that transmission medium is in half duplex mode and carrier must be

separated by 4000 Hz During the transmission, transmitting device produces a high frequency signal which acts as a basis for the transmission. This base signal is called Analog signal

Question No: 23

Illustrate the two strategies used to avoid collision.

Answer

additional energy. This is not useful for effective collision detection.

We need to avoid collisions on wireless networks because they cannot be detected. Carrier sense multiple access with collision avoidance *(CSMAlCA)* was invented for this

network. Collisions are avoided through the use of CSMAICA's three strategies: the interframe

space, the contention window, and acknowledgments, as shown in Figure 12.16.

Figure 12.16 *Timing in CSMAICA*

-Found Size:

idle l1Jillielxlp1obneinntiaalry

Question No: 24

Show how the address 47:20:1B:2E:08:EE is sent out online by filling the spaces in figure given blow.

- Hexadecimal
- Binary
- Transmitted

Answer

Show how the address 47:20:1B:2E:08:EE is sent out online by filling the spaces in figure given blow.

Hexadecimal 47:20:1B:2E:08:EE

Binary 47 20 1B 2E 08 EE

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Transmitted 47: 20: 1B : 2E: 08: EE

At the data-link layer, Simple protocol is designed to handle both flow and error control, but communication is one frame at a time.During the transmission, transmitting device produces a high frequency signal which acts as a basis for the transmission. This base signal is called Analog signal

Question No: 25

A communication system is encoding 2-bit data words into 3-bit code words for error detection using even-parity encoding.

I. If data word is '01', what will be the code word for transmission?

II. If communication system suffers a 3-bit burst error and all the bits are damaged; what will be the code word received at the other end?

III. With the effect of burst error; will this code word be accepted or rejected by the receiver? Mention the reason.

Answer

A communication system is encoding 2-bit data words into 3-bit code words for error detection using even-parity encoding. If data word is '01', They will be the code word for transmission is <01>. If communication system suffers a 3-bit burst error and all the bits are damaged; They will be the code word received at the other end is 6-bit. With the effect of burst error; will this code word be accepted or rejected by the receiver? The reason of the code word is all the process will b hide system for FEC using XOR operation, we divide a packet into N chunks, and need to send N chunks to the receiver side's a technique called, compounding High-and-Low Resolution Packets, the low-resolution section in the first packet is Checksum.

Question No: 26

State the reasons for the Looping problem in a switch along with appropriate solutions based on logical reasoning.

Answer

Loop Problem Transparent bridges work fine as long as there are no redundant

bridges in the system. Systems administrators, however, like to have redundant bridges (more than one bridge between a pair of LANs) to make the system more reliable. If a bridge fails, another bridge takes over until the failed one is repaired or replaced. Redundancy can create loops in the system, which is very undesirable.

Switching loop: A **switching loop** or bridge **loop** occurs in computer networks when there is more than one Layer 2 (OSI model) path between two endpoints (e.g. multiple connections between two network **switches** or two ports on the same **switch** connected to each other).

Question No: 27

Name the three wave propagation methods for communication through unguided media.

Answer

The three wave propagation methods for communication through unguided media.

- cell phone
- mail
- internet

Question No: 28

Enlist three channelization protocols.

Answer

Enlist three channelization protocols.

- Aloha, CSMA/CD and CSMA/CA
- Reservation, Polling and Token
- FDMA, TDMA, and CDMA

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Question No: 29

If we want to be able to detect 4-bit errors, what should be the minimum Hamming distance? Answer with the help of formula.

Answer

The Hamming distance between two pair of words (101101, 001011) is

- 101101
- 001011

The answer is hamming distance is 3

The PAP is a simple authentication procedure with a twostep process, which uses Two type(s) of packet(s) for authentication. In CRC error detection, all the data words are added using 1's complement to calculate a sum, which is then complemented and transmitted with the data words. The Network layer is responsible for the creation and delivery of a frame to another node, along the link.

Question No: 30

Give the names for the following two carriers in telephone system under LATA;

What is the name of carrier that handles Intra-LATA?

What is the name of carrier that handles Inter-LATA?

Answer

The names for the following two carriers in telephone system under LATA;

LOCAL ACESS TRANSPORT AREA

the name of carrier that handles Intra-LATA is the external access transport area

the name of carrier that handles Inter-LATA internal access transport area

Question No: 31

Give the name of the characteristic in which signal gets degraded during its propagation and full strength of signal is not received at receiver.

Answer

The name of the characteristic in which signal gets degraded during its propagation and full strength of signal is not received at receiver. is a signal where it is being received by receiver after reflection from different intermediate objects (Building, iron polls, walls) is called Interference

Question No: 32

Two stations (M and N) are connected through a circuit switched network. If station M wants to transfer some data to station N; a dedicated link is used to

transmit data. Write the names of five stages involved in this process for successful communication.

Answer

Two stations (M and N) are connected through a circuit switched network. The station M wants to transfer some data to station N and dedicated link is used to transmit data to five stages involved in this process for successful communication.

- Radio
- mobile LAN
- WAN
- INTERNET
- FAX
- MASSAGE

Question No: 33

Name and describe any **two** controlled-access methods.

Answer

- LAN
- WAN

WAN, we search all the data into the wan when we use the browser and we find some data into the internet world we fined easily everything just open and search the problem that is why we used the WAN

LAN in the lane when the router connects with the wire into the LAN then the system is start to working and we use the LAN

Question No: 34

A communication system is encoding 2-bit data words into 3-bit code words for error detection using even-parity encoding.

I. If data word is '01', what will be the code word for transmission?

II. If communication system suffers a 3-bit burst error and all the bits are damaged; what will be the code word received at the other end?

III. With the effect of burst error; will this code word be accepted or rejected by the receiver? Mention the reason.

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Answer

A communication system is encoding 2-bit data words into 3-bit code words for error detection using even-parity encoding.

Question No: 35

If data word is '01', what will be the code word for transmission?

The code word for transmission is 0 If communication system suffers a 3-bit burst error and all the bits are damaged; what will be the code word received at the other end the code word received at the other end is error with the effect of burst error; will this code word be accepted or rejected by the receiver the code word is rejected by the receiver because the code word is effect of burst error that's why

Question No: 35

Telephone system works in multiple small metropolitan area which are called LATA, answer the questions given below;

- Which name is given to services that are offered by telephone companies inside a LATA?
- And, what name shall be given to the services that are offered between LATAs?

Answer

Telephone system works in multiple small metropolitan area which are called LATA, answer the questions given below; Which name is given to services that are offered by telephone companies inside a LATA The name of the giving the companies is telecom local access transport area And, the name shall be given to the services that are offered between

- LATAs is the Aloha, CSMA/CD and CSMA/CA
- Reservation, Polling and Token
- FDMA, TDMA, and CDMA

Question No: 36

How does CSMA/CD technique get impacted in wireless LAN by the following factors?

- Power at a host
- Hidden station

Answer

How does CSMA/CD technique get impacted in wireless LAN by the following factors?

Power at a host

The power at the host is the router openly in the room and the area covered the signal in the area and the user use easily some of the person us the wire to the router The PAP is a simple authentication procedure with a twostep process, which uses Two type(s) of packet(s) for authentication.

Cyclic codes are special linear block codes in which, rotation of a code word results in another code word.

Hidden station

The hidden station is using the LAN it is difficult to use the LAN because ether power of the station is hidden and the proper working but if the problem create then it was a difficult to use In CRC error detection, all the data words are added using 1's complement to calculate a sum, which is then complemented and transmitted with the data words. The Network layer is responsible for the creation and delivery of a frame to another node, along the link.

Question No: 37

what are the categories of multiplexing?

Ans:

There are three categories of multiplexing

- FDM
- TDM
- WDM

Have a two other categories

- Synchronous
- asyrounce

Question No: 38

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What kind of error is undetectable by the checksum?

Ans:

Error detection method used by the higher layers like VRC, LRC, CRC, checksum is also based on the concept of redundancy

Question No: 39

What are the basic purpose of routers?

Routers connect computers and other devices to the Internet. A router acts as a dispatcher, choosing the best route for your information to travel. It connects your business to the world, protects information from security threats, and can even decide which computers get priority over others.

Question No: 40

Why we need a Null Modem?

Ans:

Null modem is a communication method to directly connect two DTEs (computer, terminal, printer, etc.) using an RS-232 serial cable. With a null modem connection, the transmit and receive lines are cross-linked. Depending on the purpose, sometimes also one or more handshake lines are cross-linked.

Question No: 41

What are properties of signals?

Ans:

- Capable of being propagated over TX.
- Medium, Interpretable as data at the recieve

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Question No: 42

Coaxial cable designs are categorized by their Radio government (RG) ratings; you are requiredto match the following RG ratings with their respective uses.

Category	Use
RG-11	Used for TV
RG-59	Thin Ethernet
RG-58	Thick Ethernet

Ans:

Category	Use
RG-11	Thick Ethernet
RG-59	Used for TV
RG-58	Thin Ethernet

Question No: 43

Give Advantages of using VLAN on layer 3 switches.

Ans:

- VLANs enable logical grouping of end-stations that are physically dispersed on a network.
- VLANs reduce the need to have routers deployed on a network to contain broadcast traffic.
- Flooding of a packet is limited to the switch ports that belong to a VLAN.
- Confinement of broadcast domains on a network significantly reduces traffic
- Cost and Time Reduction
- Creating virtual Workgroups
- Security

Question No: 44

Name and describe any **two** controlled-access methods.

Answer

The three popular controlled-access methods are as follows.

- Reservation: In the reservation method, a station needs to make a reservation before sendingdata.
- Polling: Polling works with topologies in which one device is designated as a primary stationand the other devices are secondary stations. ...
- Token Passing: In the token-passing method, the stations in a network are organized in a logicalring

Question No: 45

Consider a scenario where five computers are connected to each other in a wired LAN through switch.How can this wired LAN be converted to a wireless LAN architecture?

Ans:

According to given scenario, Wireless LANs can be replaced this. Wireless LANs are those Local Area Networks that use high frequency radio waves

instead of cables for connecting the devices in LAN. Users connected by WLANs can move around within the area of network coverage. Most WLANs are based upon the standard IEEE 802.11 or Wi-Fi.

IEEE 802.11 Architecture

The components of an IEEE 802.11 architecture are as follows

1. Stations (STA) − Stations comprise all devices and equipment's that are connected to the wireless LAN. A station can be of two types:

a. Wireless Access Points (WAP) − WAPs or simply access points (AP) are generally wireless routers that form the base stations or access.

b. Client. − Clients are workstations, computers, laptops, printers, smartphones, etc.

Each station has a wireless network interface controller.

2. Basic Service Set (BSS) −A basic service set is a group of stations communicating at physical layer level. BSS can be of two categories depending upon mode of operation.

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Give two points describing the importance of Standards in Data Communication.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Suppose a computer network is using multiplexing technique for sending different types of data from different channels then which technique will be used at the receiving end to split the data into the form as it was before multiplexing?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Why stop and wait method is slow as compared to sliding window method in data flow control?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 44 of 52 **Marks: 2 (Budgeted Time 4 Min)**

A network administrator is facing the problem in making one multi station access unit (MAU) of 15 stations in his network based on Ring Topology. Discuss the problem that can occur in this scenario?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose a certain radio station is using an Audio signal with a Bandwidth (BW) of 8 KHz. What BW will be needed to modulate the signal using FM (frequency modulation)? Write all necessary steps for calculation and proper formula(s).

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose you are asked to evaluate the performance of the communication media used in a computer network then discuss the three core factors which are mainly used to measure the performance of transmission medium.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Control Frames play important role in the communication. Just write the name of three Control Frames along with their functionalities from the receiver in the perspective of XMODEM.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Draw the given binary using NRZ-I.
0001110101

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 50 of 52 **Marks: 5 (Budgeted Time 10 Min)**

A network administrator of a computer lab is facing the problem of bandwidth wastage as the bandwidth requirements of lab users are far less than the total capacity of the communication medium being used in the lab. You are required to discuss a suitable technique for the proper utilization of the bandwidth capacity of the medium. Also write distinguishing functionality of its three main categories.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

A Flow Control method has its specific mechanism to keep track of transmitted and received frames. What is the main factor on which the identification scheme of Sliding Window relies to keep track of transmitted and received frames? Explain this tracking scheme with an example of n=8.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC100401156 (HAFIZ MUHAMMAD ARSLAN)

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

In data Communication, a term PDU is widely used especially in the context of OSI layer model. You are required to give detail of PDU and its structure in the context of Data Link Layer.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

Some specific portion of bandwidth of a medium is allocated as Guard Bands. Discuss why we use Guard Bands?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Write the main role, a NULL Modem does play with respect to DTE.

Answer (Please click here to Add Answer)

100%

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Consider an example of a network comprised of only two stations having a dedicated link between them. Which type of Line discipline will be implemented in this case?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Suppose a network administrator wants to convert its single ring topology network into dual ring topology then what will be two main advantages, he can achieve by doing this?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

To overcome the problems / restrictions in other standards, a more effective standard called X.21 standard was introduced in communication industry. You are required to mention three distinct characteristics of this standard that make it more effective than others.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Suppose you need to have simultaneous transmission of signals through a single medium, then which technique will be used to fulfill this requirement? Also describe, how does that technique work at sender and receiver end?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Data Link Control is one of the main tasks in any network. You are required to mention the functions specifically performed by Data Link layer in the perspective of Data Link Control.

Answer (Please click here to Add Answer)

100%

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

TCP/IP is a protocol suit containing number of protocols on each layer. Name any three TCP/IP protocols which are used on Network Layer.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Calculate the Bit rate and Baud rate for an Analog signal transmitting 500 signal elements per second, where each signal element carries 5 bits. Make calculations by writing all necessary formulas and steps.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

There are many types of redundancy check techniques but we want to apply a most common and less expensive error detection technique. You are required to describe the suitable technique meeting the given requirements. Also apply your suggested error detection technique on the message " vu " (ASCII code is given below).

01110110 v
01110101 u

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Sliding Window's flow control mechanism uses a specific sequence of numbers for sending and receiving frames. By using this flow control technique, write the window size if n=7 and also complete the following sequence numbers for next 8 packets: 0, 1, 2, 3, ...

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401908 (AHTESHAM NASEER)

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

The Fiber Distributed Data Interface is an ANSI and the ITU-T standard that works on token passing access method in Ring Topology. You are required to mention the types of Registers and types of Timers used in the process of token passing between stations in a Ring Topology.

Answer (Please click here to Add Answer)

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Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

What information, Phase does provide us regarding a sin wave? Also write its unit of measurement.

Answer (Please click here to Add Answer)

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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

Discuss the role, Bit Stuffing plays in multiplexing. Does adding the extra Bits in a frame for synchronization purpose come under bit stuffing?

Answer (Please click here to Add Answer)

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Question No : 43 of 52 Marks: 2 (Budgeted Time 4 Min)

Why stop and wait method is slow as compared to sliding window method in data flow control?

Answer (Please click here to Add Answer)

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Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

A company wants to establish its computer network using Token Bus technology. You are required to give two main characteristics of this technique.

Answer (Please click here to Add Answer)

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Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

Suppose you are asked to evaluate the performance of the communication media used in a computer network then discuss the three core factors which are mainly used to measure the performance of transmission medium.

Answer (Please click here to Add Answer)

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Question No : 46 of 52 Marks: 3 (Budgeted Time 6 Min)

Give the Phase shift in degrees when a signal completes:

1. A full cycle
2. A half of a cycle
3. A quarter of a cycle

Answer (Please click here to Add Answer)

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Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

Consider a network topology based on Poll/Select procedure where one device is designated as Primary and other devices as Secondary. You are required to mention two possibilities to terminate data transmission.

Answer (Please click here to Add Answer)

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Examination VU Examination System (...

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Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer (Please click here to Add Answer)

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Question No : 49 of 52 Marks: 5 (Budgeted Time 10 Min)

A news channel is using AM (Amplitude modulation) for broadcasting its news bulletin; calculate the bandwidth in KHz that is required for each of the following AM stations.

a) Modulating signal with a bandwidth of 4 KHz.

b) Modulating signal with frequencies of 2000 to 3000 Hz.

Note: Write all necessary steps for calculation and proper formula(s).

Answer (Please click here to Add Answer)

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Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

Network architecture with Synchronous TDM is creating problems in terms of improper usage of line. You are required to give the reasons, why such problems are created in Synchronous TDM? Also suggest its solution with two advantages over Synchronous TDM.

Answer (Please click here to Add Answer)

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Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Some types of line disciplines require addressing while others do not. Justify with reasons, why addressing is required in Poll / Select method and not required in ENQ/ACK method?

Answer (Please click here to Add Answer)

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Question No : 52 of 52 Marks: 5 (Budgeted Time 10 Min)

Suppose Maize Products Company is running a network of 50 computers in which several devices access the same network resources equally. Keeping in view the scenario, discuss the networking technique which not only makes it possible for several devices to access the network resources but also detects possible collisions and resolves it.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401019** (SANIYA MUZAFFAR)

Question No : 41 of 52 **Marks: 2 (Budgeted Time 4 Min)**

For enabling communication between devices in LAN, WAN or MAN, which types of protocol standards can be used?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

How Even Parity Generator works in Vertical Redundancy Check (VRC)?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

How many bits hamming code can correct at a time?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Write any four types of Link Access Protocols, specifically developed by ITU-T.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401019** (SANIYA MUZAFFAR)

Question No : 45 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Suppose a constellation diagram consists of four equally spaced points on a circle then what will be the Baud Rate if bit rate is 2800 bps in this scenario. Write all necessary steps for calculation and proper formula(s) to find Buad Rate. Also mention, which type of PSK is used?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 46 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Telephone companies use multiplexing technique in order to maximize the performance of their analog lines and make combination of lines as Group, Super-group and Master-group. Write the number of voice channels along with the data rates corresponding to each combination (Group, Super-group and Master-group).

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Consider a network topology based on Poll/Select procedure where one device is designated as Primary and other devices as Secondary. You are required to mention two possibilities to terminate data transmission.

Answer (Please click here to Add Answer)

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CS601 Data Communication BC110401019 (SANIYA MUZAFFAR)

Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401019** (SANIYA MUZAFFAR)

Question No : 49 of 52 **Marks: 5 (Budgeted Time 10 Min)**

A DTE of one network wants to communicate with a DTE on another network, while both DTEs are directly connected to their corresponding DCEs. Discuss all the steps needed in this scenario.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401019** (SANIYA MUZAFFAR)

Question No : 50 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Due to some network impairments, data sent from sender has been changed before reaching its destination. In this situation, the receiver does not accurately receive what is actually sent by the sender. You are required to write the names and discuss the types of bit errors that can happen in such situations. Also enlist any four error detection techniques to detect such types of errors.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401019 (SANIYA MUZAFFAR)

Question No : 51 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose a computer wants to send a message consisting of 32 bits to another computer by ensuring the reliable data delivery, it is applying LRC technique. You are required to describe the whole process (step by step) of sending a block of 32 bits by using this technique.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401019** (SANIYA MUZAFFAR)

Question No : 52 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose Maize Products Company is running a network of 50 computers in which several devices access the same network resources equally. Keeping in view the scenario, discuss the networking technique which not only makes it possible for several devices to access the network resources but also detects possible collisions and resolves it.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

If 64 bits are sent over transmission medium in one second, what will be the Bit rate and Bit interval?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Briefly discuss two main purposes of DSU in digital version of analog switched line.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Just write the names of the line disciplines that are used for 'peer-to-peer' and 'primary-secondary' communication respectively.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Enlist the two major classes of synchronous protocols at data link layer.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401020** (TAYYABA ASLAM)

Question No : 45 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Suppose you are asked to evaluate the performance of the communication media used in a computer network then discuss the three core factors which are mainly used to measure the performance of transmission medium.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

In Data Communication, two devices need to be agreed upon some specific set of rules governing communication. You are required to discuss the concept of Timing with example in perspective of that set of rules.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401020** (TAYYABA ASLAM)

Question No : 47 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Suppose sender has sent 8 frames by using Go Back n ARQ, suddenly NAK of the 6th frame is received indicating that frame is lost. In this scenario, how this frame is recovered using this technique? Also write the frame numbers to be retransmitted.

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401020** (TAYYABA ASLAM)

Question No : 49 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose you need to convert digital data into analog signals by keeping frequency and phase constant. Considering the scenario, discuss the appropriate technique with its limitations in terms of:
a) Bandwidth
b) Noise
c) Speed of transmission

Answer (Please click here to Add Answer)

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CS601 Data Communication **BC110401020** (TAYYABA ASLAM)

Question No : 50 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose analog telephone conversation between two users takes place by using one of the two main services of analog telephone communication. You are required to name these services and discuss how the process of communication occurs in these services?

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

Sliding Window's flow control mechanism uses a specific sequence of numbers for sending and receiving frames. By using this flow control technique, write the window size if n=7 and also complete the following sequence numbers for next 8 packets: 0, 1, 2, 3, ...

Answer (Please click here to Add Answer)

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CS601 Data Communication

BC110401020 (TAYYABA ASLAM)

Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

The Fiber Distributed Data Interface is an ANSI and the ITU-T standard that works on token passing access method in Ring Topology. You are required to mention the types of Registers and types of Timers used in the process of token passing between stations in a Ring Topology.

Answer (Please click here to Add Answer)

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Question No : 41 of 52 **Marks: 2 (Budgeted Time 4 Min)**

If 64 bits are sent over transmission medium in one second, what will be the Bit rate and Bit interval?

Answer (Please click here to Add Answer)

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Question No : 42 of 52 **Marks: 2 (Budgeted Time 4 Min)**

Which type of device is used for connecting a terminal to a T-1line?

Answer (Please click here to Add Answer)

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Question No : 43 of 52 **Marks: 2 (Budgeted Time 4 Min)**

Find the binary equivalent of the expression given below:

x^3+x+1

Answer (Please click here to Add Answer)

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Question No : 44 of 52 **Marks: 2 (Budgeted Time 4 Min)**

Enlist the two major classes of synchronous protocols at data link layer.

Answer (Please click here to Add Answer)

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Question No : 45 of 52 **Marks: 3 (Budgeted Time 6 Min)**

To overcome the problems / restrictions in other standards, a more effective standard called X.21 standard was introduced in communication industry. You are required to mention three distinct characteristics of this standard that make it more effective than others.

Answer (Please click here to Add Answer)

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Question No : 46 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Telephone companies use multiplexing technique in order to maximize the performance of their analog lines and make combination of lines as Group, Super-group and Master-group. Write the number of voice channels along with the data rates corresponding to each combination (Group, Super-group and Master-group).

Answer (Please click here to Add Answer)

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Question No : 47 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Control Frames play important role in the communication. Just write the name of three Control Frames along with their functionalities from the receiver in the perspective of XMODEM.

Answer (Please click here to Add Answer)

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Question No : 48 of 52 **Marks: 3 (Budgeted Time 6 Min)**

In data transmission and telecommunication a technique is used in HDLC protocol for the insertion of extra bits. Give reason why extra bits are added? Also write the name of the technique used for this purpose.

Answer (Please click here to Add Answer)

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Question No : 49 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose a telecommunication station wants to convert its audio signals into digital signals. Considering this scenario, you are required to give brief description of a suitable mechanism in this regard.

Answer (Please click here to Add Answer)

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Question No : 50 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose analog telephone conversation between two users takes place by using one of the two main services of analog telephone communication. You are required to name these services and discuss how the process of communication occurs in these services?

Answer (Please click here to Add Answer)

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Question No : 51 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Suppose two computers are communicating with each other using HDLC protocol. Discuss, what will be the core role / responsibility of HDLC frames in this communication? Also give the name and functionality of three main types of frames in HDLC.

Answer (Please click here to Add Answer)

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Question No : 52 of 52 **Marks: 5 (Budgeted Time 10 Min)**

During the transmission, there are possibilities of losing a frame or an acknowledgement. How the lost frame and lost acknowledgement are handled in the Go-Back-N ARQ and Selective Reject ARQ respectively.

Answer (Please click here to Add Answer)

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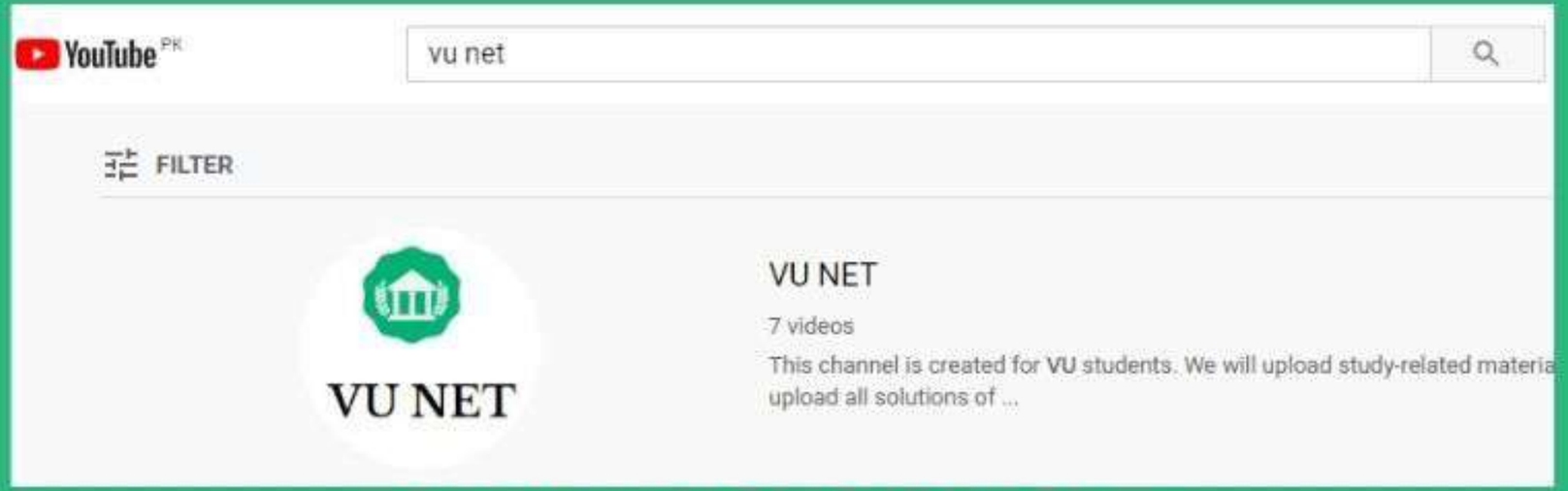
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CS601 GRAND QUIZ FILE

Which one of following is a scrambling coding technique?

- **B8ZS**
- B8SZ
- B08SZ
- BZ8S

According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

- Continuous
- **Discrete**
- Bit length
- Homogeneous

Low pass channel has_____ bandwidth between two stations.

- Dedicated
- **Shared**
- Multiplexed
- Infinite

_____ is the heart of blocking code.

- **Coding**
- Division
- Substitution
- Multiplication

Wireless transmission can be divided into_____ broad groups.

- Two
- **Three**
- Four
- Five

Wiring used for transmission modes depends upon_____.

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- **Latency**
- Data Stream
- Data sniffing
- Packet Tracing

If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.

- **5 bps**
- 10 Hz
- 0.2 bps
- 10 bps

If the message going to pass through a packet-switched network, it can be divided into packets of_____.

- Fixed size
- Variable size
- **Both fix and Variable size**
- None

In an analogue hierarchy to carry voice channels, a group can carry _____voice channels.

- 60
- **12**
- 20
- 10

1. **In optical fiber a glass or plastic core is surrounded by a _____.**

- **Cladding**
- Outer conductor shield
- Inner Conductor shield
- Insulator

In transmission impairments _____ noise occurs from other sourcelike

- Impulse
- **Induced**
- Cross talk
- Thermal

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_____ is a digital process that allows connections to share the high bandwidth of a link.

- FDM
- **TDM**
- WDM
- None of the choices is correct

Bandwidth in hertz in the range of_____ contained in a composite signal.

- Signals
- Phases
- Amplitudes
- **Frequencies**

LAN stands for _____.

- Logical area network
- Long-distance Area Network
- **Local Area Network**
- Long Area Network

Demultiplexer is a_____ device.

- **One to many**
- Many to many
- One to one
- Many to many

Mr. Asif while sitting in Lahore is linking with his friend in Dubai through Skype is a_____.

- Local Area Network
- Metropolitan Area Network
- **Wide Area Network**
- Home Based Network

In _____ modulation, frequency and amplitude remain constant.

- Phase
- Frequency
- **Amplitude**
- Quadrature

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In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of_____.

- 1.544 Mbps
- 128 kbps
- **64 kbps**
- 32 kbps

The bandwidth-delay product defines the number of bits that can fill the _____.

- **Link**
- Network
- Hub
- Switch

If a digital-signals has four levels, then we need _____ bits to represent each level.

- **2**
- 3
- 4
- 5

Routing is a function of_____ layer.

- **Network**
- Physical
- Transport
- Datalink

_____ relatively measures the strength of two signals.

- Signal rate
- Bit rate
- **Decibel**
- Pulse rate

Taking off the header from the message is called_____.

- Layering
- **Encryption**
- Decapsulation
- Stuffing

Which of the following is not a characteristic of a sine wave?

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- Amplitude
- **Segmentation**
- Phase
- Frequency

In frequency domain plot, which value is replaced with frequency?

- **Wavelength**
- Amplitude
- Phase
- Time

_____ is the process of converting binary data to a digital signal.

- QAM
- ASK
- FSK
- **Line coding**

Low pass channel with _____ bandwidth is not real and is used for theoretical modeling.

- Multiplex
- Infinite
- Ethernet
- **Narrow**

HDB3 falls under which coding scheme?

- **Bipolar**
- Bi phase
- Line
- Block

Unit of phase is_____.

- Bits per second
- Watts
- Bauds
- **Degree**

BFSK stands for_____.

- Baud Frequency Shift Key

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- **Binary Frequency Sift Key**
- Barrier Frequency Shift Key
- Bridge Frequency Shift Key

_____ is NOT an example of connecting device.

- Bridge
- Router
- **TCP**
- Switch

Coaxial cables are categorized by their_____ ratings.

- Electronic Industries Association (EIA)
- Amplitude modulation (AM)
- Frequency modulation (FM)
- **Radio Government (RG)**

_____ is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.

- Capacity=Bandwidth*(1+SNR)
- Capacity=Bandwidth*log2(2+SNR)
- Capacity=Bandwidth*log2(SNR)
- **Capacity=Bandwidth*log2(1+SNR)**

Which one of the following is not among the required phases for the actual communication in a circuit switched network?

- Setup
- Data transfer
- **Protocol**
- Connection teardown

A common bipolar encoding scheme is called _____.

- **AMI**
- NRZ
- RZ
- QAM

A telephone line analog signal has got the bandwidth of _____.

- 8 kHz

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- **2 kHz**
- 16 kHz
- 4 kHz

In _____ systems, resources are allocated on demand.

- Frequency switching
- Line switching
- **Circuit switching**
- Packet switching

A fiber-optic cable transmit signals in the form of_____.

- **Light**
- Sound
- Waves
- None of the given

Composite wave can be used to send _____.

- Bandwidth
- Telephone
- Amplitude
- **Frequency**

Routing is the function of _____ layer.

- **Network**
- Physical
- Transport
- Data link

A virtual-circuit network operates on _____layer.

- **Datalink**
- Network
- Physical
- Application

In TCP\IP model, the Physical Layer exchanges data in the form of _____.

- Packets
- Frames
- **Bits**

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- Segments

_____ signal completes certain pattern in a specific amount of time.

- Non-periodic
- **Periodic**
- A Periodic
- Wavelength

Narrow bands of lights in wave division multiplexing are denoted by_____.

- β
- $\cap$
- α
-

If a digital signal has four levels, the we need _____bits to represent.

- **2**
- 3
- 4
- 5

We can have combination of_____ possible codes with a 5-bit code.

- 4
- 8
- 18
- **32**

There are _____categories of multiplexing.

- 2
- **3**
- 7
- 5

Top most organization that provides support for the Internet Standard process is called_____.

- Internet Society (ISOC)
- Internet Architecture Board (IAB)
- **IETF**

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- IRTF

If the message is going to pass through a packet-switched network, it can be divided into packets of_____.

- Fixed size
- Variable size
- **Both-fix and variable size**
- None

_____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.

- Synchronous
- Asynchronous
- **Isochronous**
- Metachronous

In frequency modulation, the frequency of the oscillator changes according to the_____.

- Output Voltage
- Output Frequency
- **Input Voltage**
- Output Phases

Binary Amplitude Shift Keying also called as:

- Dual Keying
- On-In Keying
- **On-Off Keying**
- In-Out Keying

_____ signals can take infinite levels of intensity over time.

- Digital
- Discrete
- **Analog**
- Logical

Bi-polar uses_____ voltage levels.

- One
- **Two**

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- Three
- Four

In serial data transmission _____ data transmission mode can be cheap but slower.

- Synchronous
- **Asynchronous**
- Isochronous
- Metachronous

In star-based network comprising of four computers and one switch, total number of cable needed will be_____.

- **4**
- 5
- 6
- 3

Parabolic antenna is used for_____ communication.

- Infrared waves
- **Microwave**
- Light wave
- Radio wave

In circuit switching total Delay is combination of Connection Time and_____.

- Switching time
- Acknowledgement time
- Receiving time
- **Connection tear down time**

Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user.

- PDM
- CSMA
- TDM
- **FDM**

Datagram switching is done on_____.

- Application Layer
- Datalink Layer

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- Physical Layer
- **Network Layer**

Token Ring was devised by_____.

- **IBM**
- OSI
- Dell
- NASA

In TDM based digital hierarchy used by the Telephone companies, DS-0 is a digital channel of_____.

- **1.544 Mbps**
- 128 kbps
- 64 kbps
- 32kbps Repeated

_____can be published using Request for Comments (RFCs).

- Proposed Standard
- Draft Standard
- **Internet Draft**
- Internet Standard

In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

- **Thermal noise**
- Impulse noise
- Cross talk
- Induced noise

In ASK correct formula for calculating the bandwidth is as_____-.

- **B=(1*d)S**
- B=(d-1)S
- B=(d-5)S

Which one of the following is among the required phases for the actual communication in a circuit switched network?

- Setup
- **Data transfer**

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- Protocol
- Connection tear down

According to the Fourier analysis, frequencies obtained after decomposition of non-periodic digital signals are_____.

- **Bit length**
- Automatic
- Heterogenous
- Continuous

The most common type of connector used by the coaxial cable is_____.

- **BNC**
- RJ-45
- RJ-11
- RJ-57

When data is sent or received using_____ the data bits are organized in a specific order, since they

- Parallel data transmission
- **Serial data transmission**
- Hybrid data transmission
- Both parallel and serial data transmission

_____have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

- Microwave
- **Infrared waves**
- Simple waves
- Radio waves

In case of Frequency shift key, the difference between two frequency is represented as_____.

- **2Δ**
- 3Δ
- 6Δ
- 2×5Δ

_____category of coaxial cable is used for thin Ethernet.

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- **RG-58**
- RG-59
- RG-1
- RG-47

Cellular telephone uses_____ waves for communication.

- Light waves
- Infrared waves
- **Radio waves**
- Microwaves

_____mode of serial transmission guarantees fixed rate data.

- Synchronous
- Asynchronous
- **Isochronous**
- Metasochronous

Router is a network device which operates on the_____ layers of the TCP\IP protocol suit.

- Application
- Transport
- **Network**
- Presentation

_____ layer is responsible for the creating of the datagrams.

- Physical
- Data link
- Session
- **Network**

Narrow bands of light in waves division multiplexing are denoted by_____.

- β
- $\cap$
- α
- λ Repeated

In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI always_____.

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- Always changes
- Sometimes changes
- Sometimes Remain Same
- **Remain the same**

According to stats, fewer than_____ crossbar points can be used at once.

- 14%
- 100%
- 30%
- **25%**

If data rate is to be 1 Mbps then what will be the minimum bandwidth required for NRZ-1 coding scheme?

- 1Khz
- 200Khz
- 500Khz
- 0.5khz

Data format used at Transport layer of TCP\IP protocol suit is called_____.

- **Packet**
- Frame
- Bit
- Segment

A virtual circuit network operates on _____ layer.

- Data link
- Network
- Physical
- **Application** Repeated

If 32 bits are sent in two seconds then the bitrate for that signal is_____.

- 32 bps
- 64 bps
- 8 Hz
- **16 bps** Repeated

Cable TV networks use_____ cables.

- **Coaxial**

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- UTP
- STP
- Twisted pair Repeated

_____ normally used for long-distance data transfer.

- Parallel data transmission
- Serial data transmission
- Hybrid data transmission
- **Both parallel and Serial data transmission** Repeated

_____ is a block coding method.

- NRZ
- NRZ-1
- **8B\10B**
- 8B\12B

TCP\IP was chosen to be the official protocol of internet _____.

- 1973
- 1980
- **1983**
- 1988

To measure the data rate _____ theoretically formula(s)Were developed.

- One
- Two
- Three
- **Four** Repeated

In FSK, Baud rate is less than or equal to _____ rate.

- Signal
- Decibel
- Bit
- **None of these Given** Repeated

_____ signal is represented by the discrete values.

- Analog
- **Digital**

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- Both
- Continuous

Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.

- Infrared waves
- **Radio waves**
- PCLight waves
- Microwaves

Suppose a signal is amplitude then the value od decibel will be _____.

- 0
- 1
- Negative
- **Positive** Repeated

_____ technique does not follows analog conversion.

- **QAM**
- AM
- FM
- PM
- Repeated

In Pulse Code Modulation (PCM), the sampling is dependent on_____.

- Time
- **Amplitude**
- Frequency
- Signal Rate

_____ is the sub type of Time Division Multiplexing Technique.

- Amplitude TDM
- Light TDM
- **Statistical TDM**
- Barrier TDM

Modulation of analog signal is needed if the medium is _____ in nature.

- **Bandpass**

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- Low-pass
- Bi-pass
- High-pass

Quadrature Amplitude Modulation (QAM) is the combination of_____ and _____.

- FSK-PSK
- PSK-FSK
- ASK-PSK
- **ASK-FSK**

There _____ components of data communication system.

- 4
- **5**
- 6
- 7

QPSK stands for_____.

- Quality phase shift key
- Queuing phase shift key
- **Quadrature phase shift key**
- Quality physical shift key

To calculate the data rate for noisy channel_____ formula is used.

- **Shannon**
- Nyquist
- Propagation
- Greedy

Most commonly used connector for twisted pair cable is _____.

- RJ-11
- **RJ-45**
- RJ-44
- RJ-52

Binary Amplitude Shift Keying is also called as:

- Dual Keying
- On-In Keying

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- **On-Off Keying**
- In-Out Keying

Some manufacturers provide a special port called the_____.

- **IrDA**
- Consol
- Parallel
- USB

To calculate the data rate for noiseless channel _____ formula is used.

- Ready
- Shannon
- **Nyquist**
- Propagation

Two PCs and one printer are connected in a network within a room, it is an example of _____.

- **LAN**
- WAN
- MAN
- SONET

Analog the following cables given, _____ cable provides highest bandwidth and less attenuation.

- UTP
- Coaxial cable
- Coaxial cable
- **Fiber optical**

To calculate the data for noisy channel_____ formula is used.

- **Shannon**
- Nyquist
- Propagation
- Greedy

In circuit switched networks we have low efficiency but minimal _____.

- **Delay**
- Speed

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- Throughput
- Errors

Signals travel through fiber optic cable are in the form of_____.

- **Light**
- Bits
- Electromagnetic
- Bytes

Polar encoding scheme uses_____ voltage level.

- 0
- **1**
- 2
- 3

TCP\IP protocol suit consists of _____ layers.

- 3
- **5**
- 6
- 7

Bandwidth in hertz is the range of_____ contained in a composite signal.

- Signals
- Phases
- Amplitudes
- **Frequencies**

_____ is an example of a host in a network.

- Router
- **Computer**
- Bridge
- Hub

Set of rules to be followed for effective communication is called_____.

- Topology
- **Protocol**
- Switching
- Encryption

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_____ is NOT an example of a connecting device.

- Bridge
- Router
- **TCP**
- Switch

When an antenna transmits radio waves, they are propagated in _____.

- All directions
- Left directions
- Right directions
- **Only up and down direction**

Which one of the following is not a bipolar encoding level?

- Negative
- **One**
- Zero
- Positive

_____and_____ are the two types of addressing in virtual circuit approach.

- **Local, Global**
- Private, Public
- Variable, Dynamic
- Dependent, Independent

In transmission implements_____ noise occurs from other sources like motors and appliances etc.

- Impulse
- Inductive
- **Cross talk**
- Thermal

In computer network the stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____.

- **Bus**
- Ring
- Star
- Mesh

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In scrambling coding scheme, the number of pulses replacing the bits will be_____?

- **Equal to pulses**
- Double the pulses
- Half of the pulses
- Triple the pulses

In the context of analog to analog signal conversation technique. “PM” Stands for_____.

- Pulse Modulation
- **Phase modulation**
- Parse modulation
- Popular modulation

_____ relatively measurement the strength of two signals.

- Signals
- Bit rate
- **Decibel**
- Pulse rate

Datagram approach and circuit approach are two popular approaches which lead us to_____.

- Line switching
- Circuit switching
- Dynamic switching
- **Packet switching**

If data is to be 1 Mbps then what will be the minimum bandwidth required for NRZ-I coding scheme?

- 1Khz
- 200Khz
- 500khz
- 0.5khz

In virtual circuit approach when frame enters a switch and when it leaves a switch its VCi always_____.

- Always Changes
- Sometimes Changes

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- Sometimes Remain Same
- **Remain the Same**

A common bipolar coding scheme is called_____.

- **AMI**
- NRZ
- RZ
- QAM

_____ means loss of energy in signal.

- Noise
- Delay
- **Attenuation**
- Distortion

The conversion of analog simple of the signal into digital form is called _____ process.

- Quantizing
- **Sampling**
- Modulation
- Quantizing and Sampling

A local telephone network use _____network.

- Line switched
- Packet switched
- **Circuit switched**
- Bit switched

In Amplitude Shift Keying. _____of the signal is/are changed.

- Amplitude and Frequency
- **Amplitude**
- Frequency and Amplitude
- Phase

In frequency domain plot, which value is plot on Y-axis?

- Time
- Frequency
- **Amplitude**

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- Wavelength

In pulse code modulation the term sampling can also be referred as_____.

- **Pulse Amplitude Modulation**
- Pulse sample Modulation
- Pulse line modulation
- Pulse Frequency Modulation

Switch is a network device which operates on the _____layer of TCP/IP protocol suit.

- Application
- Transport
- Presentation
- **Data link**

In analog transmission of digital data, the required bandwidth is always proportional to the signal rate expect in _____ a digital to analog conversion technique.

- **ASK**
- FSK
- PSK
- NSK

WDM stands for_____.

- Wideband De-Modulation
- Worst Data Manipulation
- **Wavelength Division Multiplexing**
- None of the Choices is correct

_____ does not follows analog to analog conversion.

- **QAM**
- AM
- FM
- PM

On a communication link, different channels are separates by unused strips of bandwidth called as_____.

- Base band
- Broad band

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- Null band
- **Guard band**
-

_____ layer converts frames coming from Data Link Layer into bits and sends Them on the transmission medium.

- Application
- **Physical**
- Network
- Transport

Wavelength binds the_____ of a simple sine wave to the propagation speed of the medium.

- Phase
- **Period of the frequency** book page 61
- Amplitude
- Bandwidth

The bandwidth delay product define the number of bits that can fill the_____.

- Link
- **Network**
- Hub
- Switch

The size of the packet determined by the network and _____.

- Delays
- Switching
- Instructions
- **Governing protocol**
-

To improve the performance of line coding _____coding was……?

- **Block coding**
- MLT-3
- 2BIQ
- Double coding

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Which one of the following is not a sampling technique?

- Flat Top Sampling
- **Neutral sampling**
- Natural sampling
- Ideal sampling

_____is normally used where speed is priority in data transfer.

- Serial data transmission
- **Hybrid transmission**
- Parallel transmission
- Both parallel and serial transmission

In a computer network, five stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____ topology.

- Bus
- Ring
- Star
- **Mesh**

Some manufacturer provide a special port called the_____port that allows a wireless keyboard to communicate with a PC.

- **IrDA**
- Consol
- Parallel
- USB

Current technology supports_____ modes for propagation of light.

- **Two**
- Three
- Four
- Five

We quantize the sampling output into certain levels based on range of_____ and required accuracy.

- Frequency
- **Amplitude**
- Time period

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- None

_____is the Nyquist bit rate formula for noiseless channel.

- **BitRate=2*Bandwidth*log2 L**
- BitRate=2*Bandwidth*logL
- BitRate=2*Bandwidth*log2L
- BitRate=2*Bandwidth*L

A frequency is called _____, if the rate of change in sine wave Is Instantaneous.

- **Infinite frequency** book page 59
- Zero frequency
- Bandwidth
- Frequency hertz

Which multiplexing technique involves signals composed of light beams?

- FDM
- TDM
- **WDM**
- PDM

_____ is a multiplexing technique which shifts each signal to a different carrier frequency.

- **FDM**
- TDM
- WDM
- PDM

Entire band in United States is regulated by_____ authorities.

- **FCC**
- ITU
- NASA
- ANSI

Two stations are connected via a secure link in which messages are encrypted from source to the destination message is called----------

- Plain text
- Cipher test

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- Message
- **Protocol (not confirm)**

Simultaneous transmission of multiple signal across a single data link is called-------

- Demultiplexing
- **Multiplexing**
- Modulation
- demodulation

in NRZ-1 the signal is inverted if ---------- is encountered.

- 0
- **1**
- 00
- 11

---------- Protocol suite is being used by the modern internet communication.

- OSI
- **TCP/IP**
- ARPANET
- Telnet

In the frequency shift keying, ---------- remain(s) constant.

- Frequency
- **Amplitude**
- Both amplitude and phase
- Both phase and frequency

In ---------- signal changes its shape or form.

- Thermal noise
- **Distortion**
- Impulse noise
- Attenuation

---------- coding scheme are useful for LAN but not for long ranges.

- **Biphase book page 113**
- Line
- Vector
- Serial

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In ---------- TDM, each input connection has an allotment in the output even if is not sending data.

- Asynchronous
- Statistical
- **Synchronous (Book page 164)**
- Isochronous

---------- is a type of serial transmission in which data bits are transmitted as a continues stream in time with a master clock. Start bits, stop bits, and gaps are not used. Transmitter and receiver time is sync.

- Synchronous
- Asynchronous
- **Isochronous**
- Metasochronous

---------- Relative measures the strength of two signals.

- Signal rate
- Bit rate
- **Decibel**
- Pulse rate

When the bandwidth of a link is greater than the combined bandwidths of the signals, we use ---------- multiplexing.

- Wavelength division
- **Frequency division**
- Time division
- Hybrid division

---------- is an example of host in a network.

- Router
- **Computer**
- Bridge
- Hub

On a communication link, different channels are separated by unused strips of bandwidth called as ----------.

- Base band
- Broad band

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- Null
- **Guard band**

The conversion of analog sample of the signal into digital form is called ---------- process.

- Quantizing
- Sampling
- Modulation
- **Quantizing and sampling (Book pages 115 to 116)**

In star based network comprising of four computers and on switch, total number of cables needed will be ----------

- **4**
- 5
- 6
- 3

The logical connection between the peer layers is ---------- connection.

- Physical
- **Direct (no strong reference but as per book explanation layer to layer is direct)**
- Indirect
- Tangible

In ---------- TDM, slots are dynamically allocated to the connected stations to improve bandwidth efficiency.

- Synchronous
- **Statistical**
- Isochronous
- None of the choice is correct

According to stats, lower than ---------- crossbar point can be used at once .

- 14%
- 100%
- 30%
- **25%**

---------- Category of coaxial cable is used for cable TV.

- RG-58

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- **RG-59**
- RG-11
- RG-47

---------- is sometimes called the bit rate.

- Signal rate
- Modulation rate
- **Data rate**
- Pulse rate

Uni polar, polar and bipolar are the types of ----------

- Line
- Differential Manchester
- **NRZ-I**
- Block

Router is a network device which operates on the ---------- layer of the TCP/IP protocol.

- Application
- Transport
- **Network**
- Presentation

According to the Fourier analysis, frequencies obtained after decomposition of no period.

- Bit length
- Automatic
- Heterogeneous
- **Continuous** (Fourier analysis can be used to decompose a digital signal. If the digital signal is
  periodic, which is rare in data communications, the decomposed signal has a frequencydomain
  representation with an infinite bandwidth and discrete frequencies. If the digital
  signal is nonperiodic, the decomposed signal still has an infinite bandwidth, but the frequencies
  are continuous page 70 Data communication Book 5th generation)

When the bandwidth of a link is greater than combined bandwidths of the

- Wavelength division
- **Frequency division**
- Time division

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- Hybrid division

The ---------- technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.

- FDM
- FHSS
- TDM
- **DSSS**

---------- Cable is used in wavelength division multiplexing.

- Twisted pair
- Coaxial
- **Fiber optic**
- Ethernet

VCI address is ---------- address in virtual circuit approach.

- Private
- Variable
- Local
- **Global**

In baseband transmission, a digital signal is transmitted as ----------.

- Analog signal
- **Digital signal**
- Modulation signal
- Multiplexed signal

telephone network use ---------- network.

- Line switched
- Packet switched
- **Circuit switched**
- Bit switched

Entire band in United states is regulated by ---------- authorities.

- **FCC**
- ITU
- NASA
- ANSI

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---------- are used for multicast communication, such as radio and television.

- Microwaves
- **Radio waves**
- Light waves
- Infrared waves

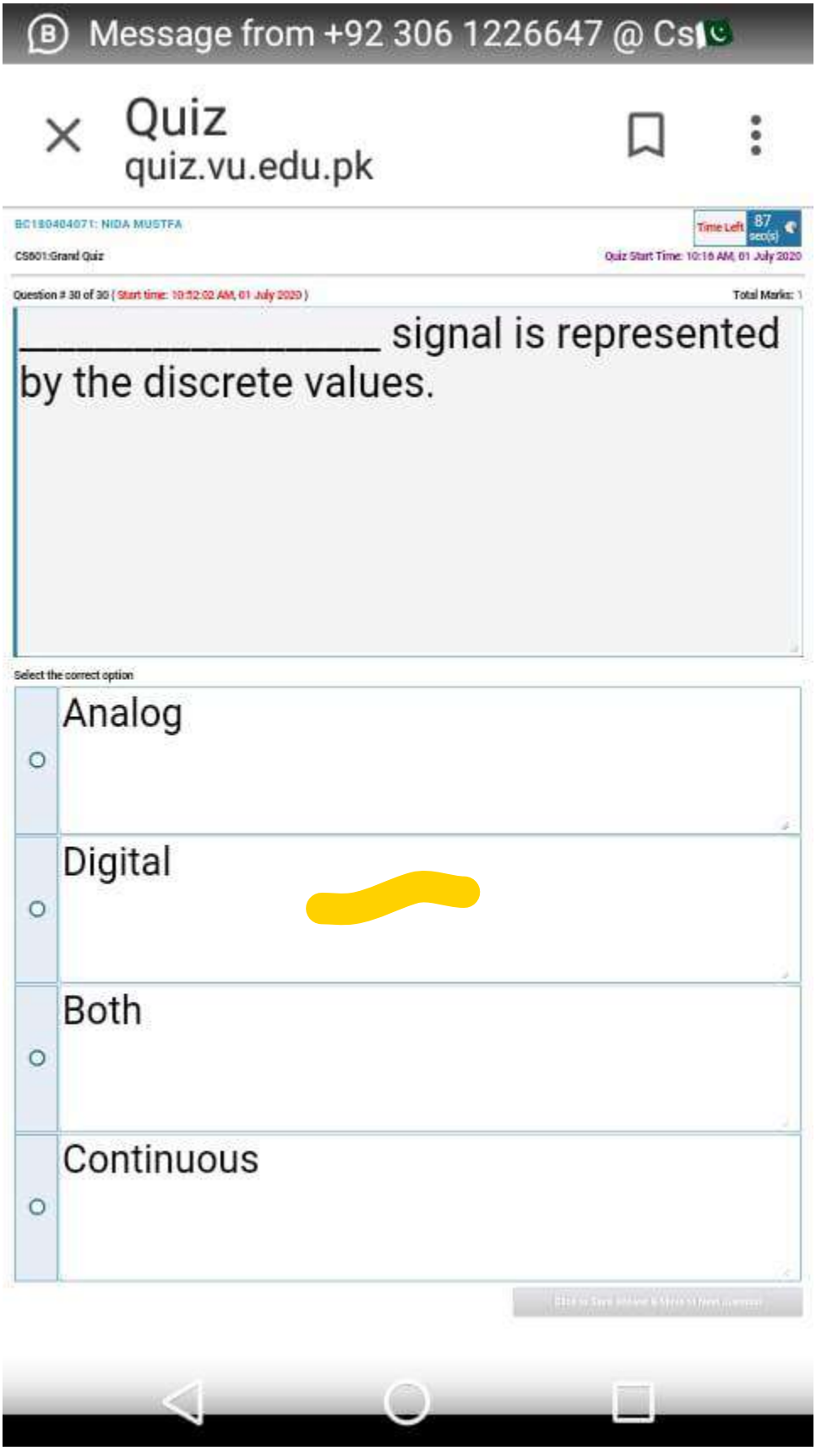
To calculate the data rate foe noiseless channel ---------- formula is used-

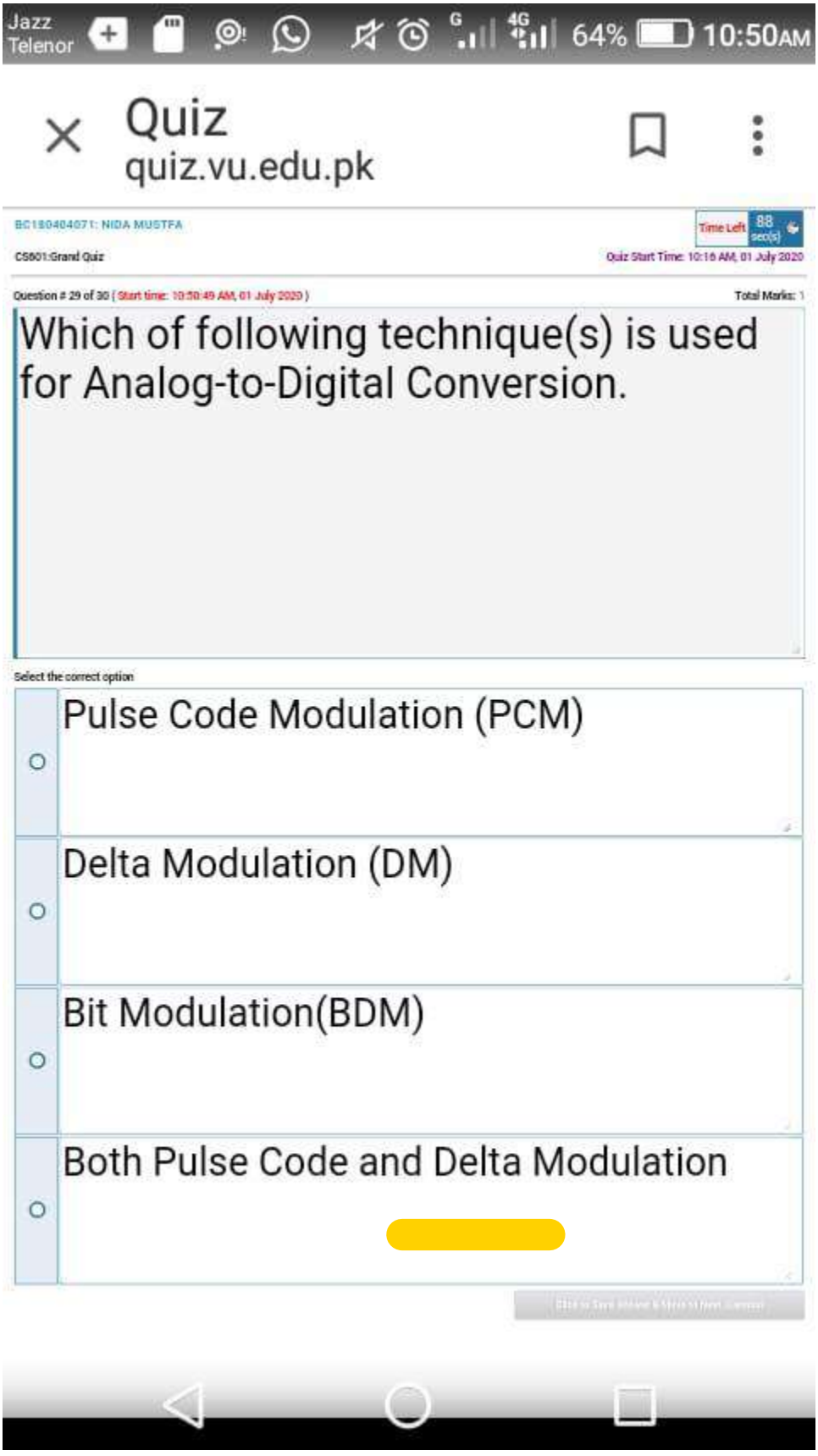
- Reedy
- Shannon
- **Nyquist**
- propagation

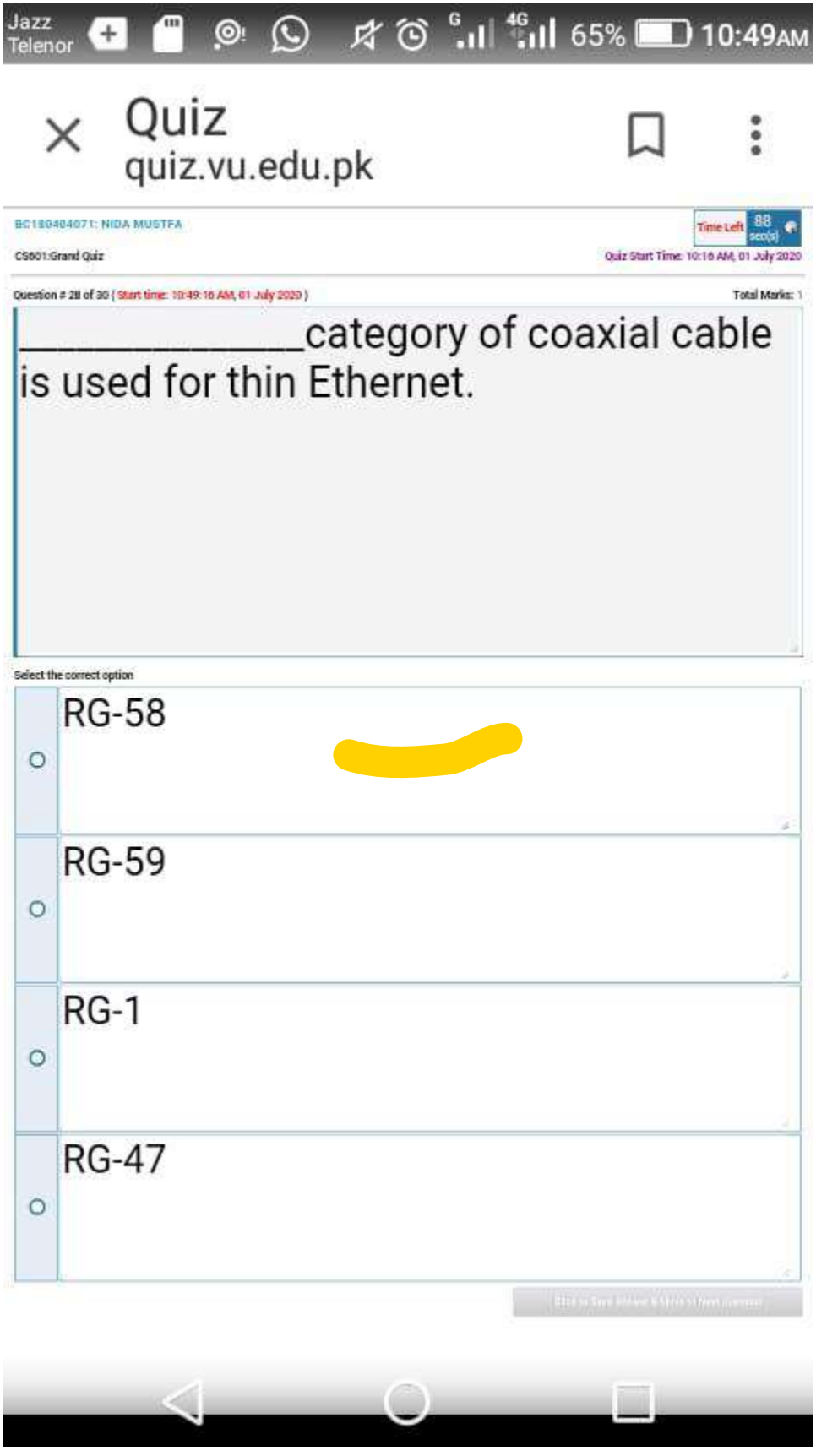
In an analogue hierarchy to carry voice channels, a super group _____ bandwidth.

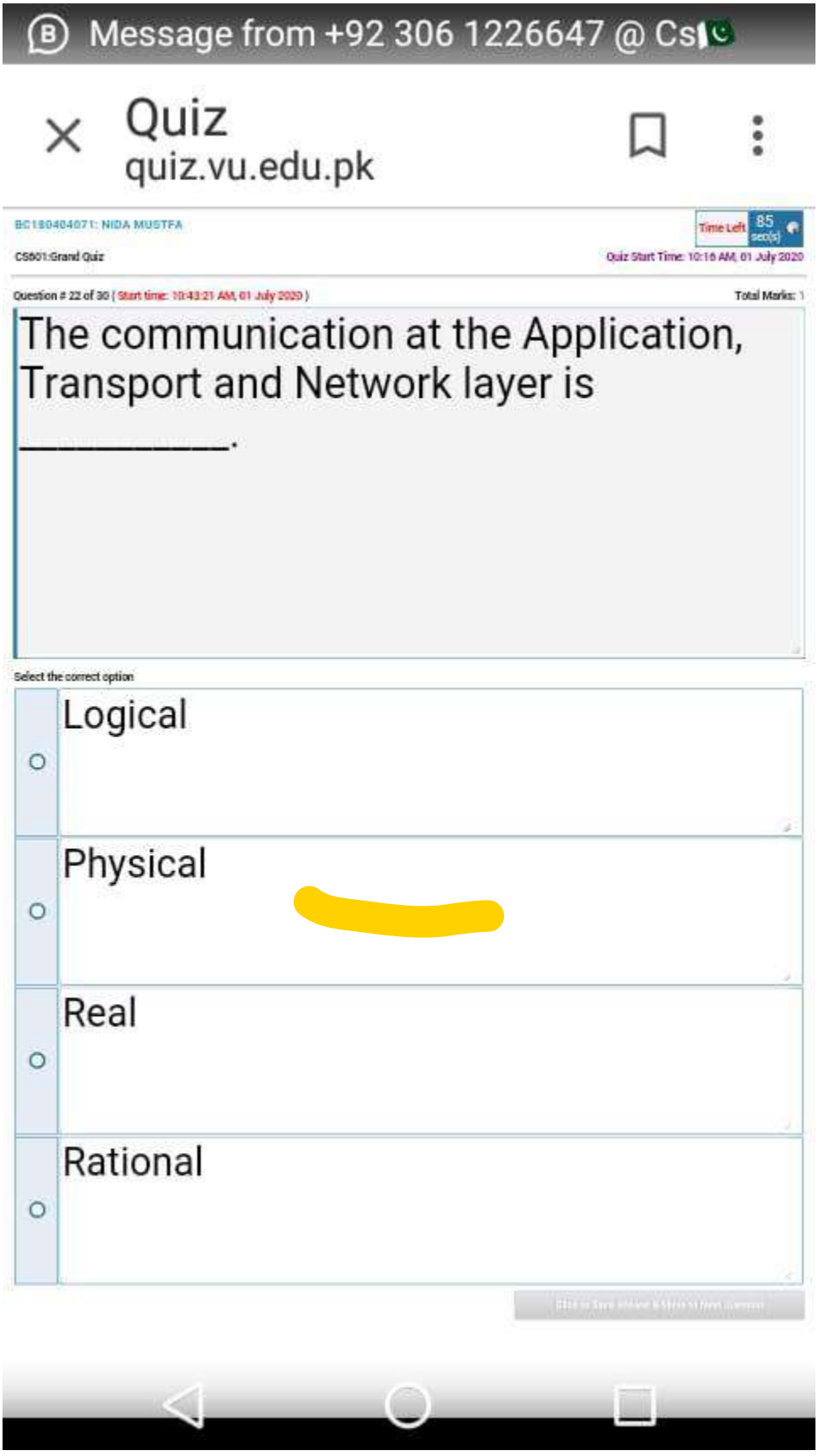
- 240 kHz
- 240 Hz
- 120 kHz
- **60kHz**

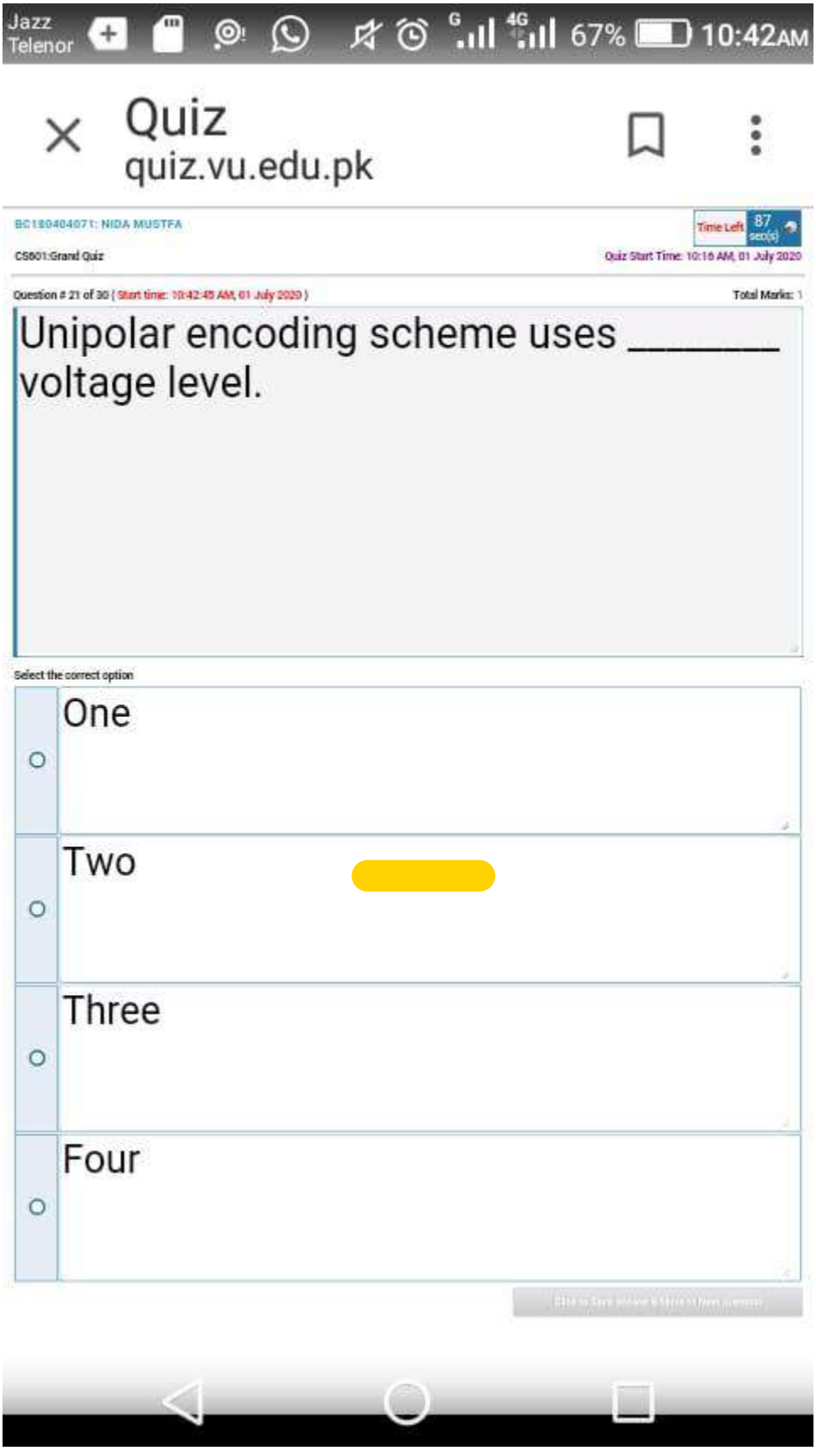
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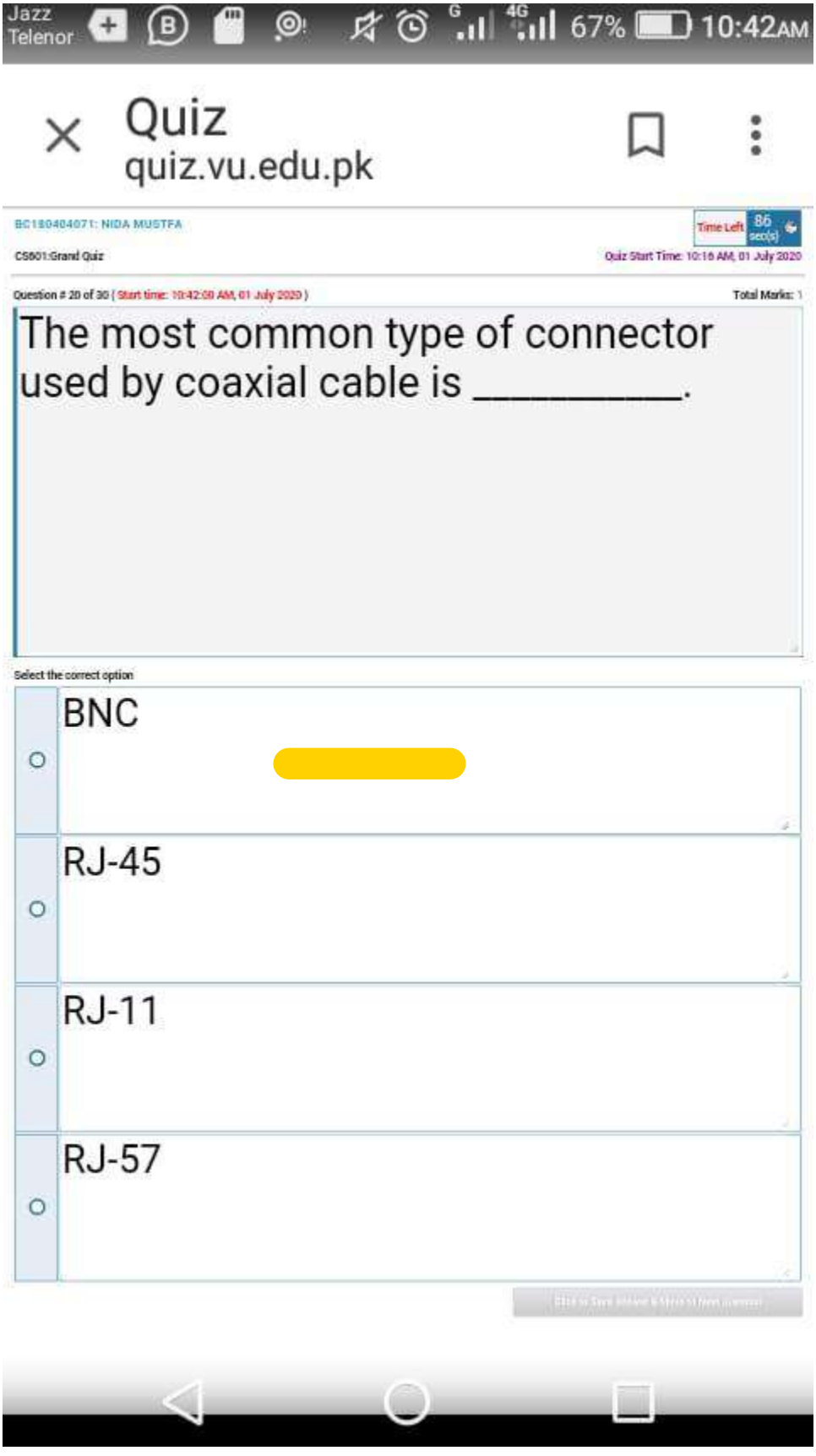

Message from +92 306 1226647 @ Cs
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 87 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 30 of 30 (Start time: 10:52:02 AM, 01 July 2020)
Total Marks: 1
_____ signal is represented by the discrete values.
Select the correct option
Analog
Digital
Both
Continuous

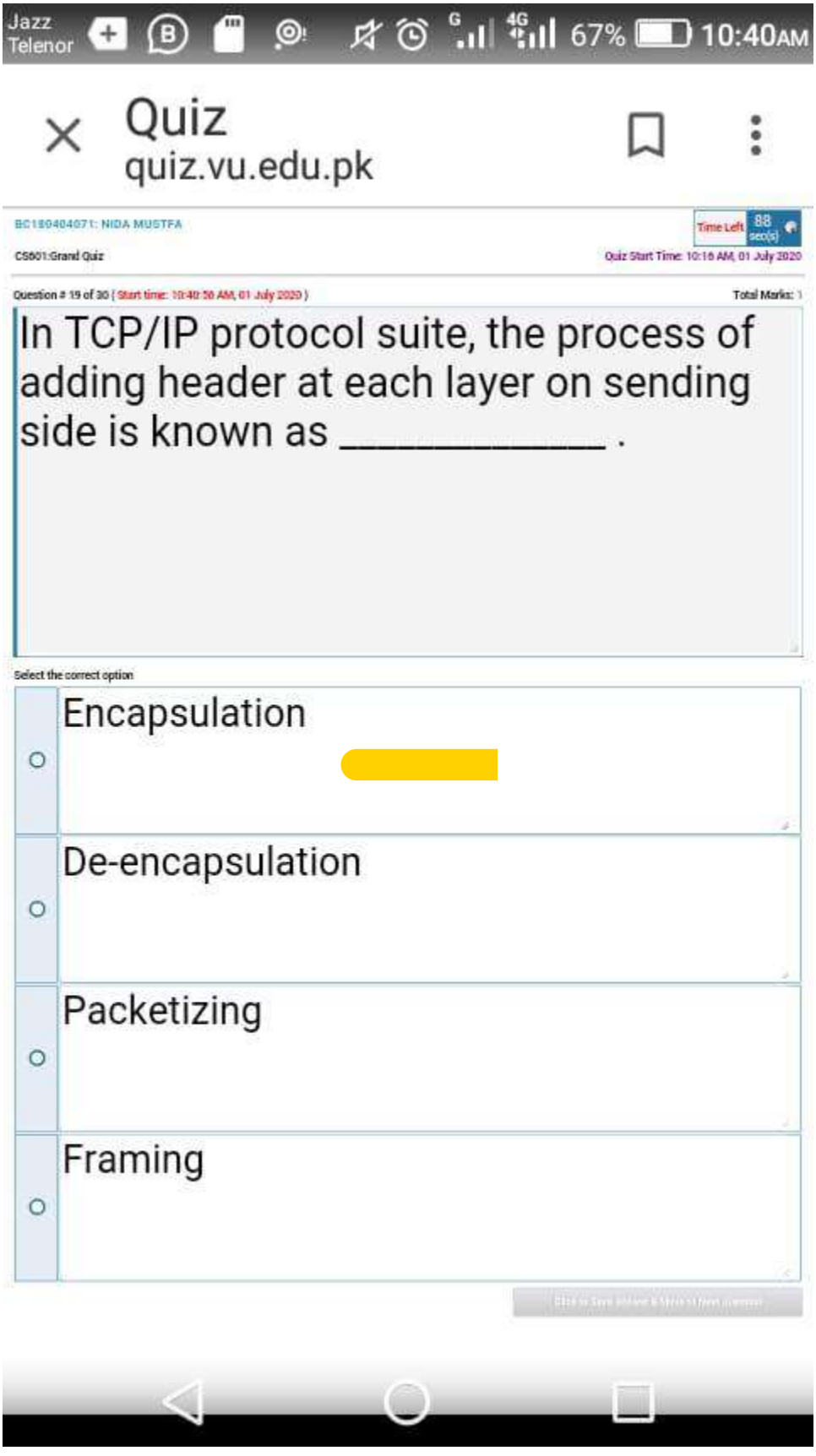

Jazz
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Quiz
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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 29 of 30 (Start time: 10:50:49 AM, 01 July 2020)
Total Marks: 1
Which of following technique(s) is used for Analog-to-Digital Conversion.
Select the correct option
Pulse Code Modulation (PCM)
Delta Modulation (DM)
Bit Modulation(BDM)
Both Pulse Code and Delta Modulation

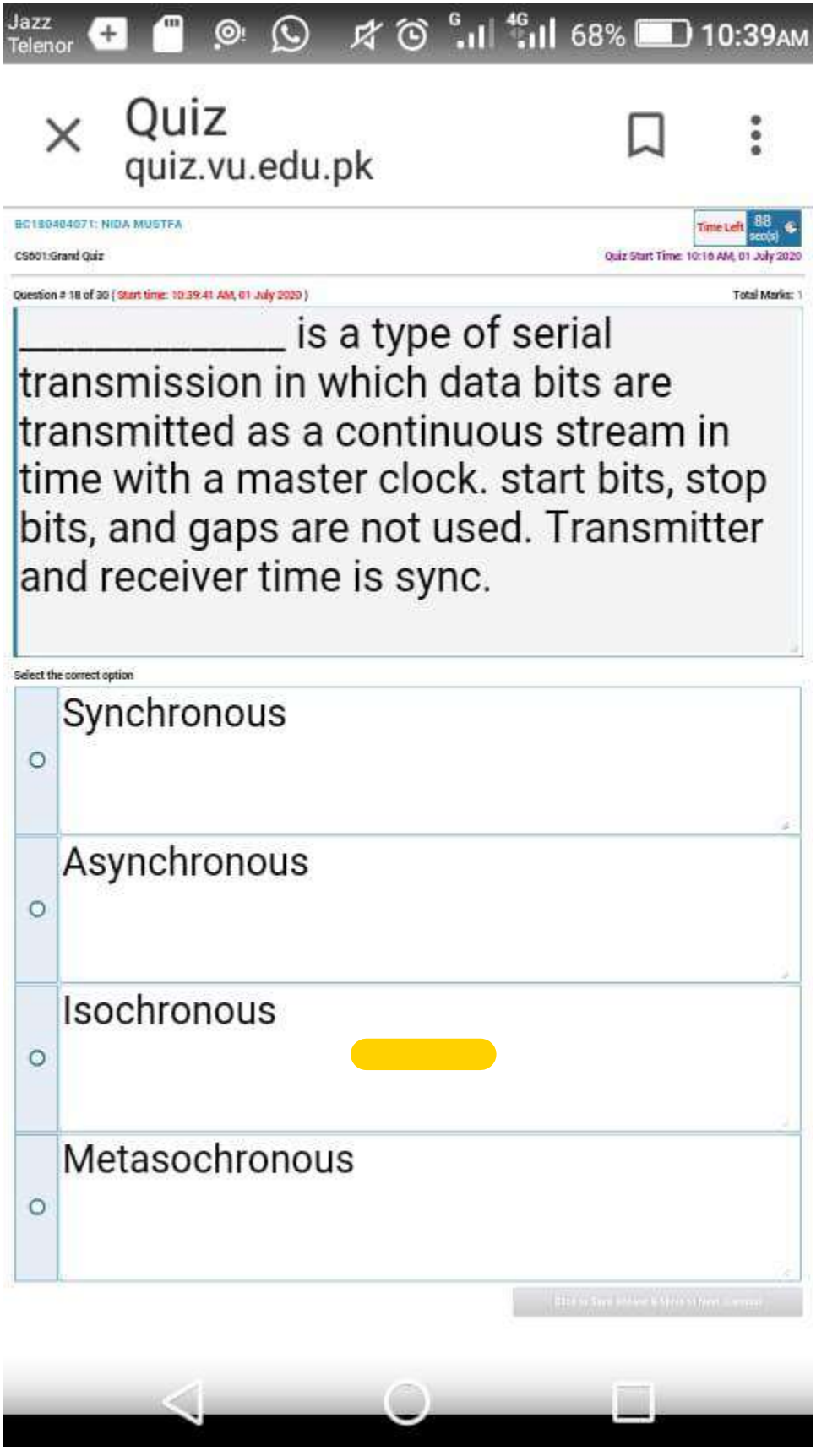

Jazz
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Quiz
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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 28 of 30 (Start time: 10:49:16 AM, 01 July 2020)
Total Marks: 1
_____category of coaxial cable is used for thin Ethernet.
Select the correct option
RG-58
RG-59
RG-1
RG-47

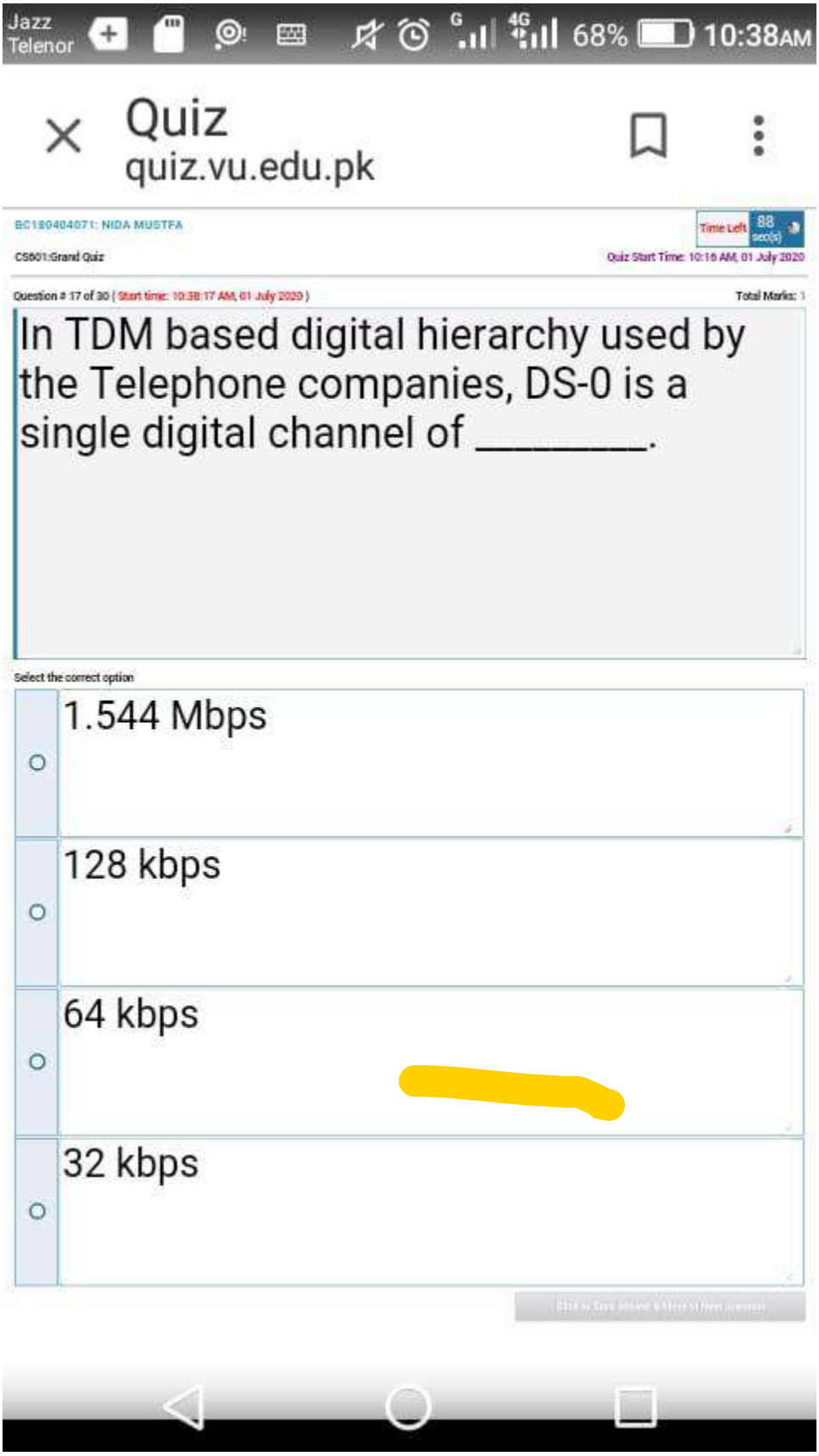

Message from +92 306 1226647 @ Cs
Quiz
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Time Left 85 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 22 of 30 (Start time: 10:43:21 AM, 01 July 2020)
Total Marks: 1
The communication at the Application, Transport and Network layer is _____.
Select the correct option
Logical
Physical
Real
Rational

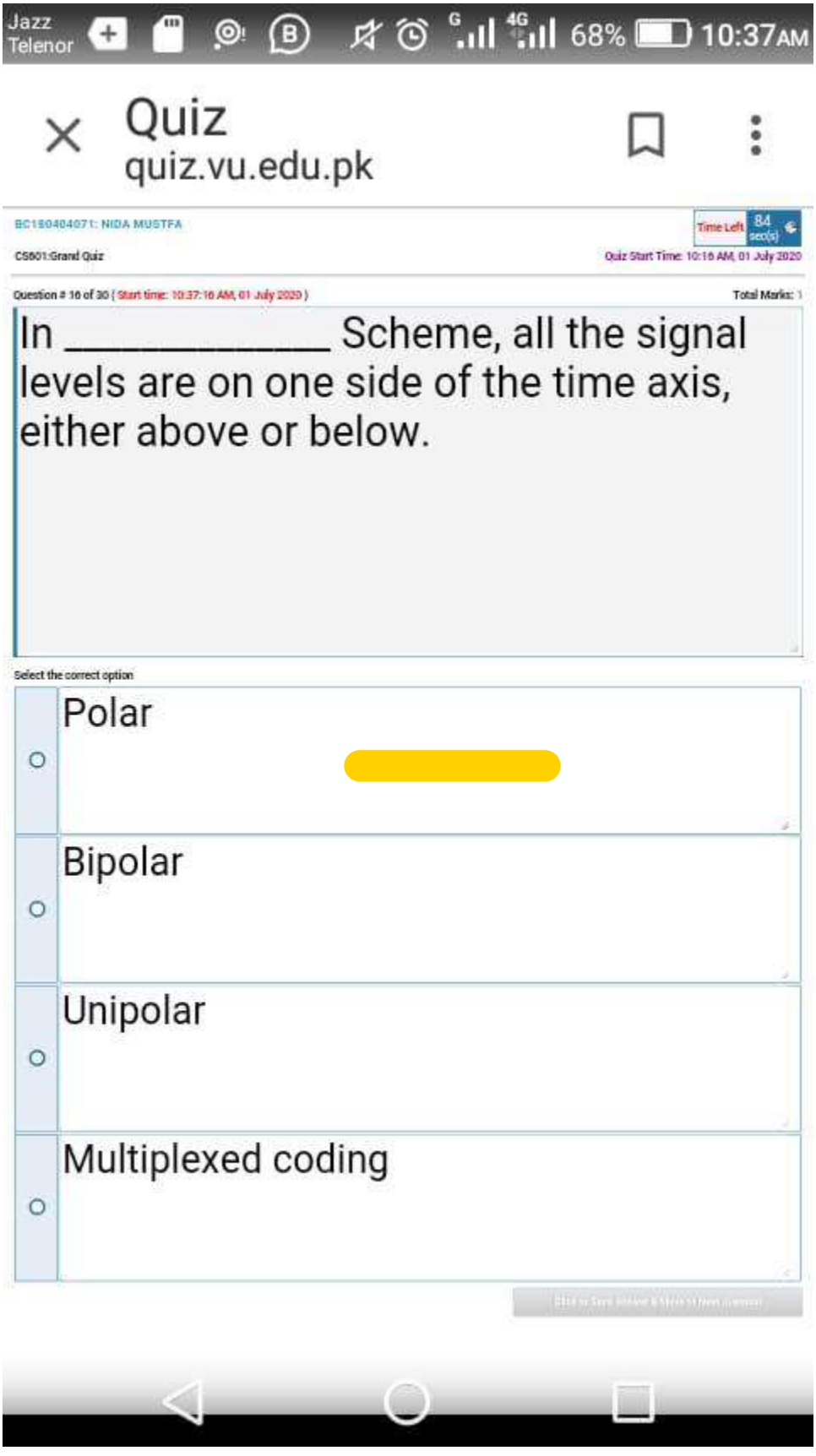

Jazz
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Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 87 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 21 of 30 (Start time: 10:42:45 AM, 01 July 2020)
Total Marks: 1
Unipolar encoding scheme uses _____ voltage level.
Select the correct option
One
Two
Three
Four

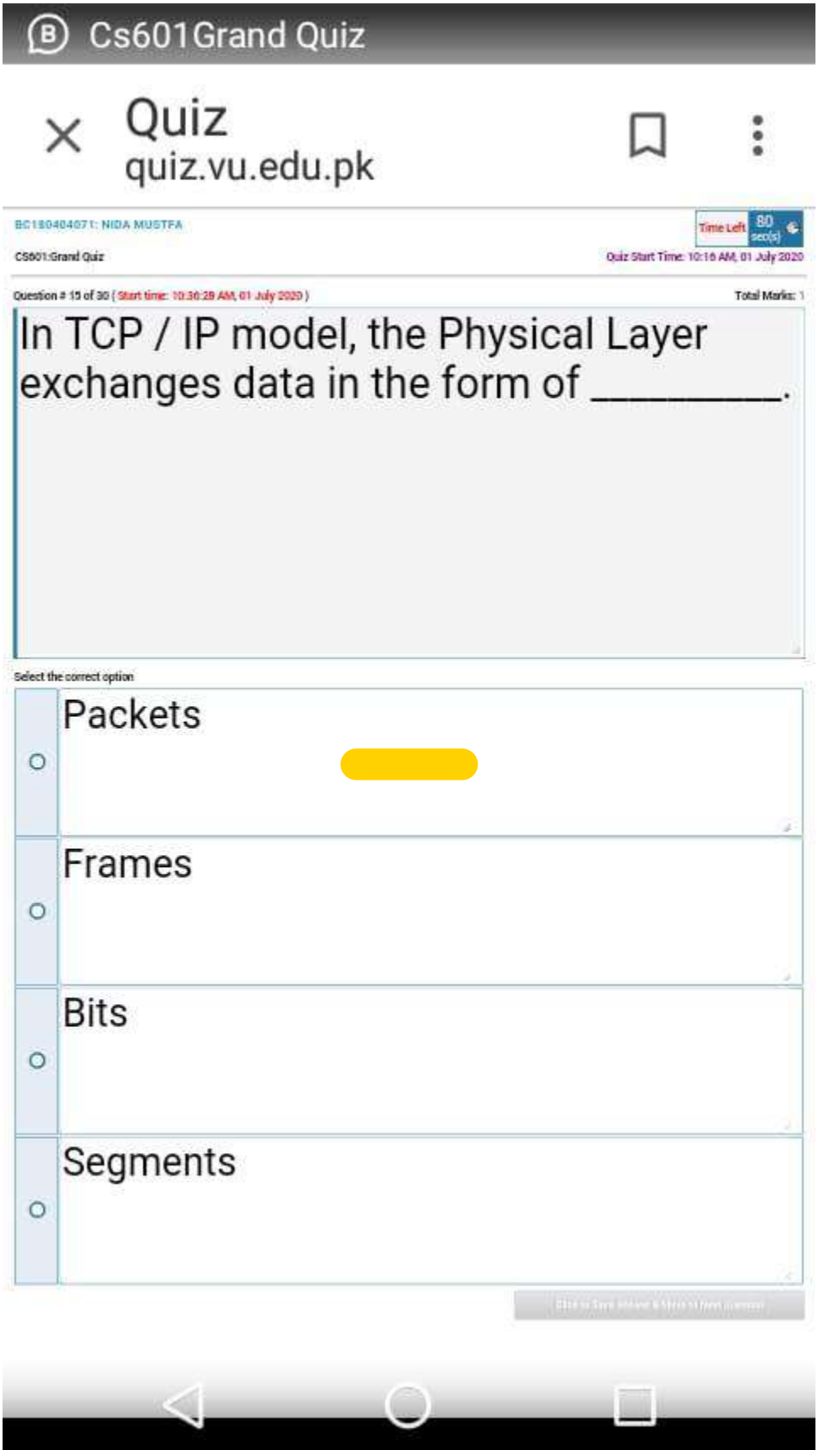

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Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 86 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 20 of 30 (Start time: 10:42:08 AM, 01 July 2020)
Total Marks: 1
The most common type of connector used by coaxial cable is _____.
Select the correct option
BNC
RJ-45
RJ-11
RJ-57

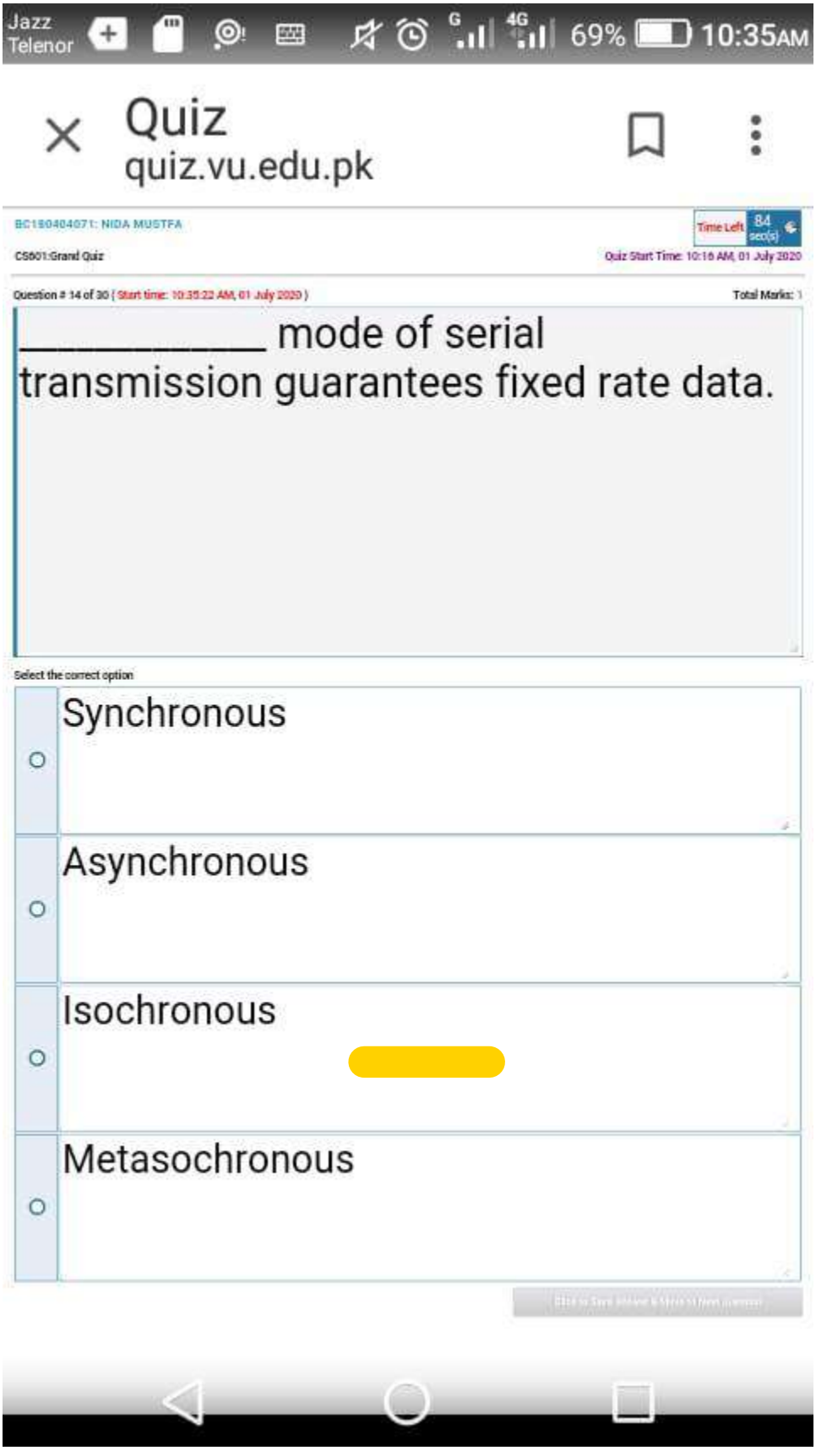

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Quiz
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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 19 of 30 (Start time: 10:40:50 AM, 01 July 2020)
Total Marks: 1
In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____ .
Select the correct option
Encapsulation
De-encapsulation
Packetizing
Framing

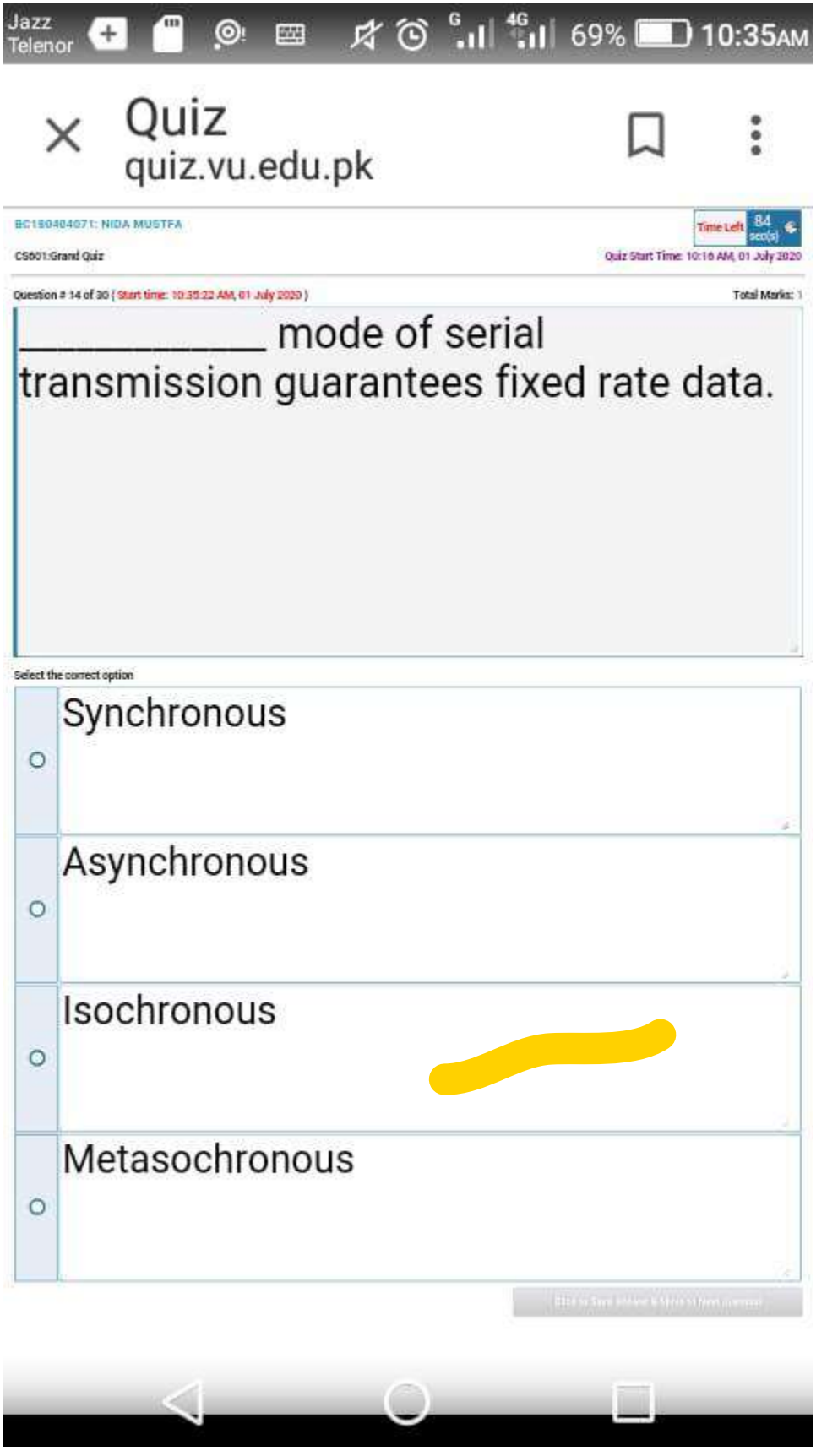

Jazz
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Quiz
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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 18 of 30 (Start time: 10:39:41 AM, 01 July 2020)
Total Marks: 1
_____ is a type of serial transmission in which data bits are transmitted as a continuous stream in time with a master clock. start bits, stop bits, and gaps are not used. Transmitter and receiver time is sync.
Select the correct option
Synchronous
Asynchronous
Isochronous
Metasochronous

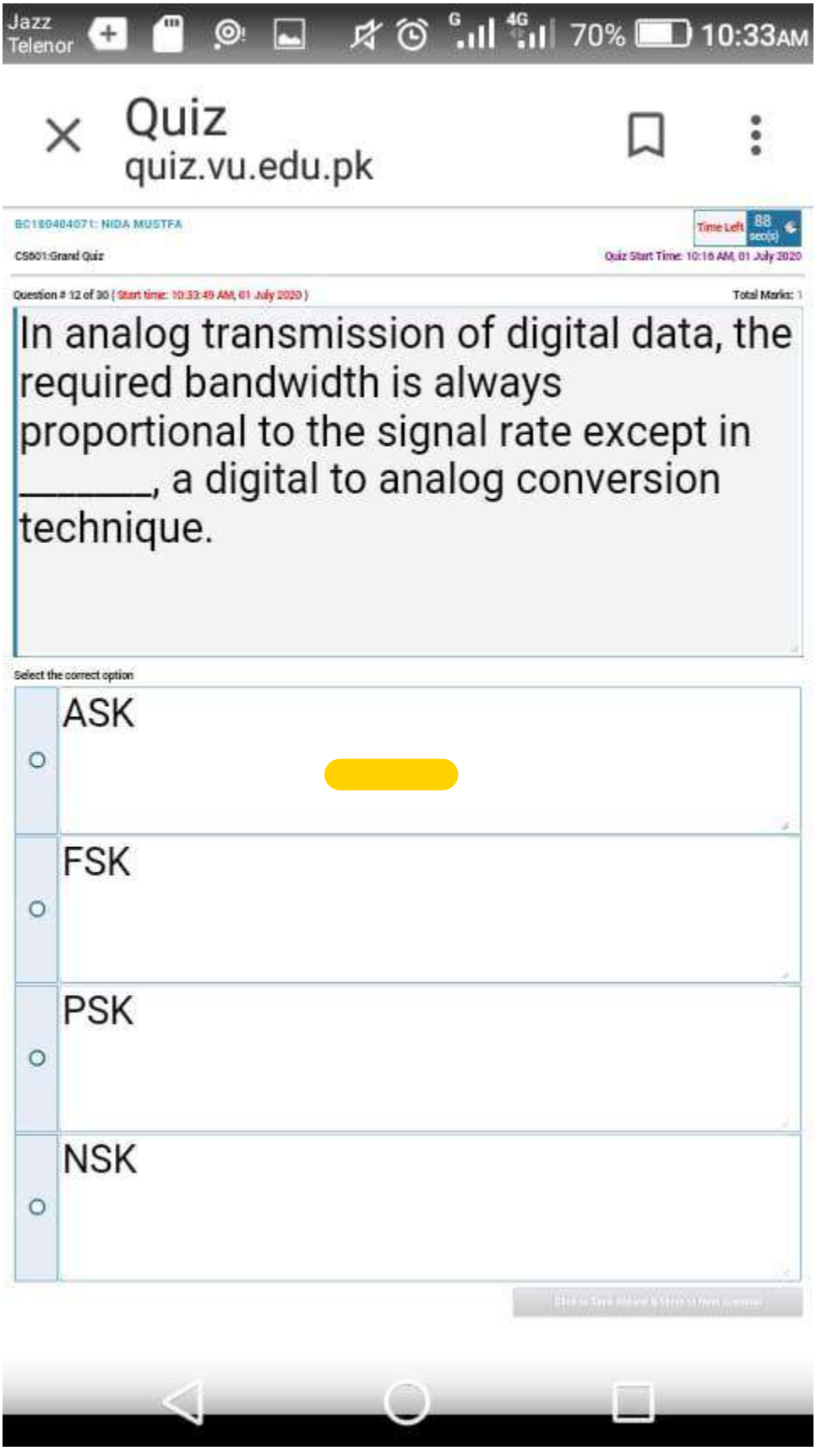

Jazz
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Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 17 of 30 (Start time: 10:38:17 AM, 01 July 2020)
Total Marks: 1
In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of _____.
Select the correct option
1.544 Mbps
128 kbps
64 kbps
32 kbps

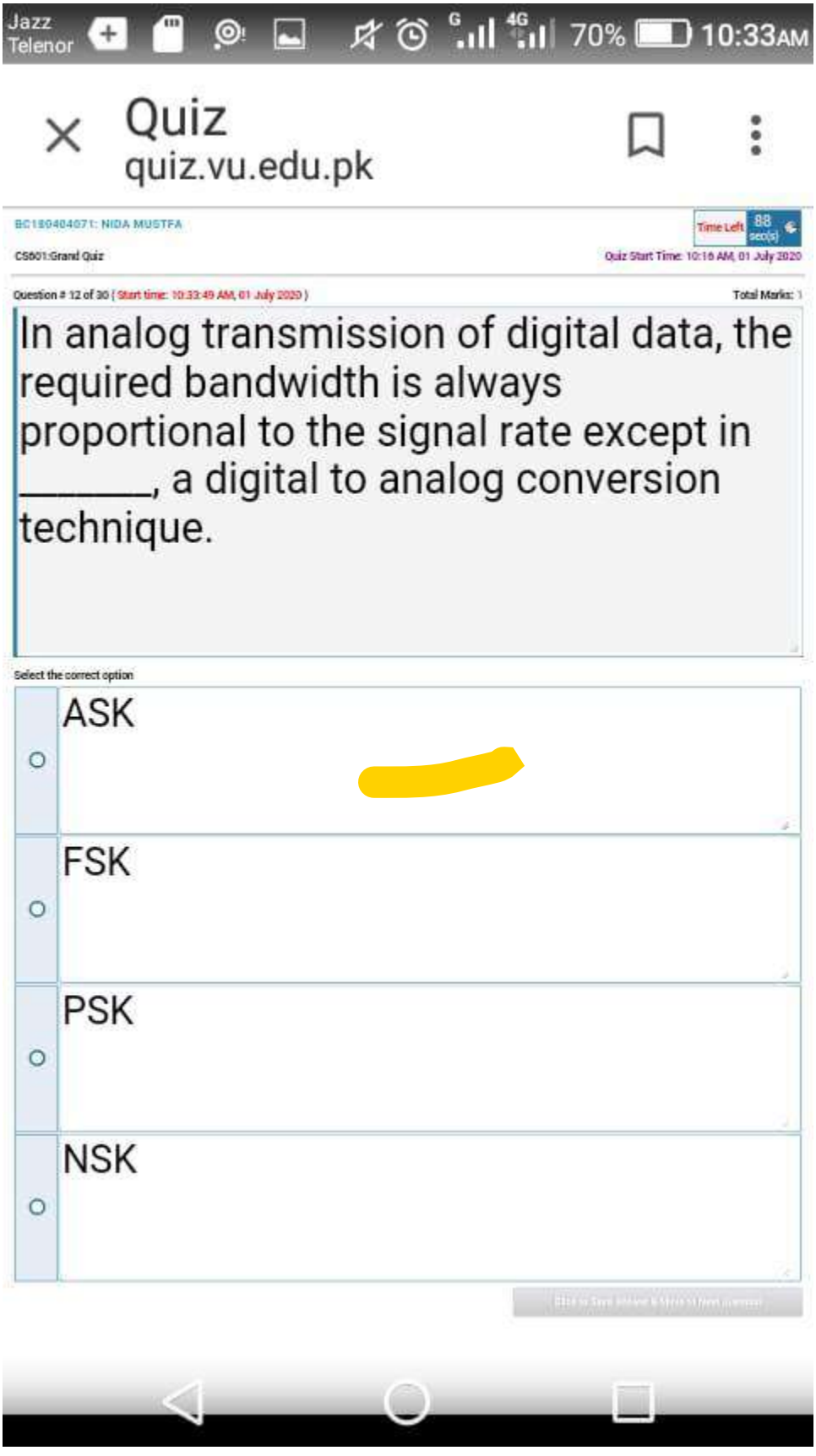

Jazz
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Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 84 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 16 of 30 (Start time: 10:37:16 AM, 01 July 2020)
Total Marks: 1
In _____ Scheme, all the signal levels are on one side of the time axis, either above or below.
Select the correct option
Polar
Bipolar
Unipolar
Multiplexed coding

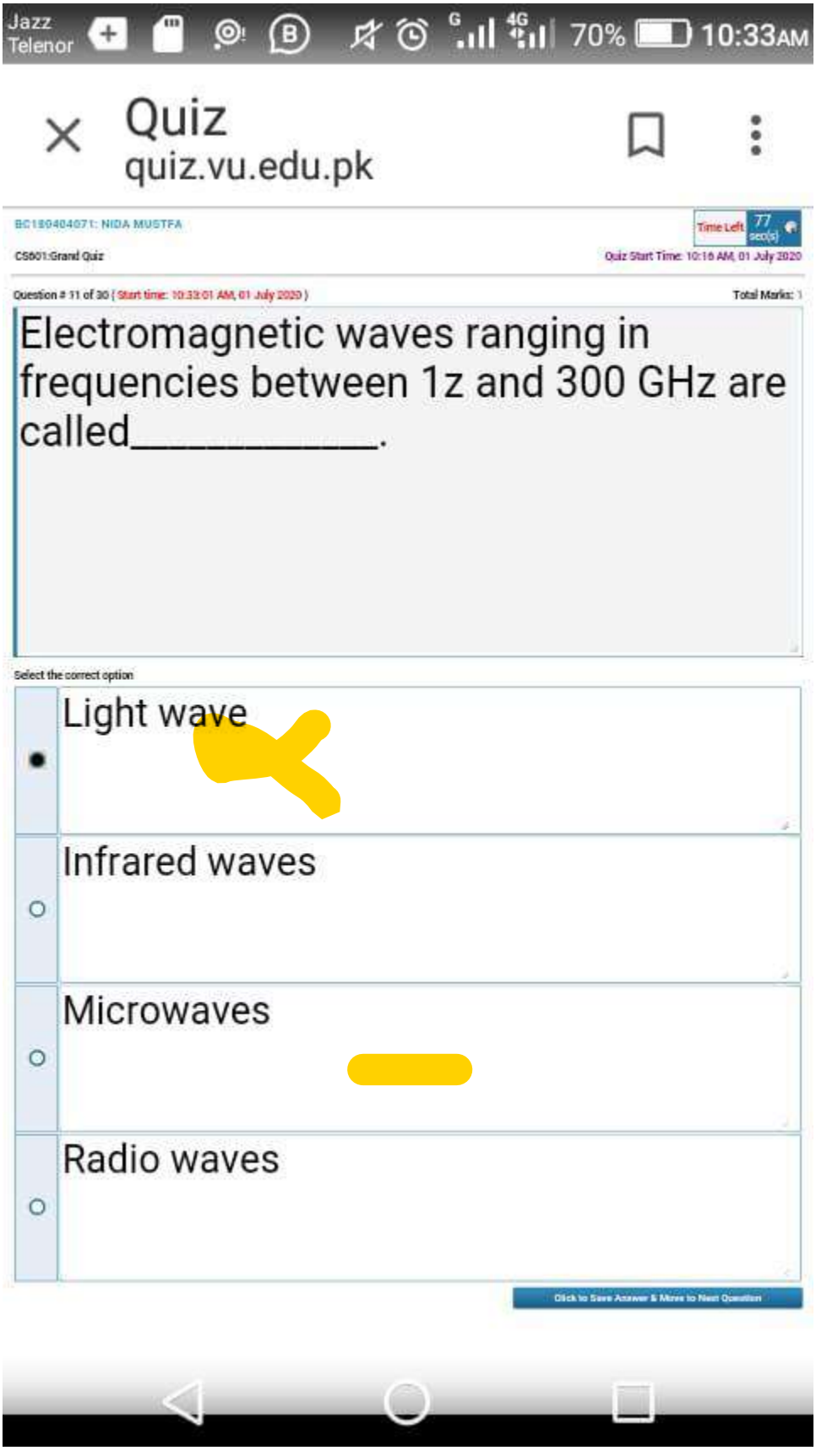

Cs601Grand Quiz
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 80 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 15 of 30 (Start time: 10:30:29 AM, 01 July 2020)
Total Marks: 1
In TCP / IP model, the Physical Layer exchanges data in the form of _____.
Select the correct option
Packets
Frames
Bits
Segments

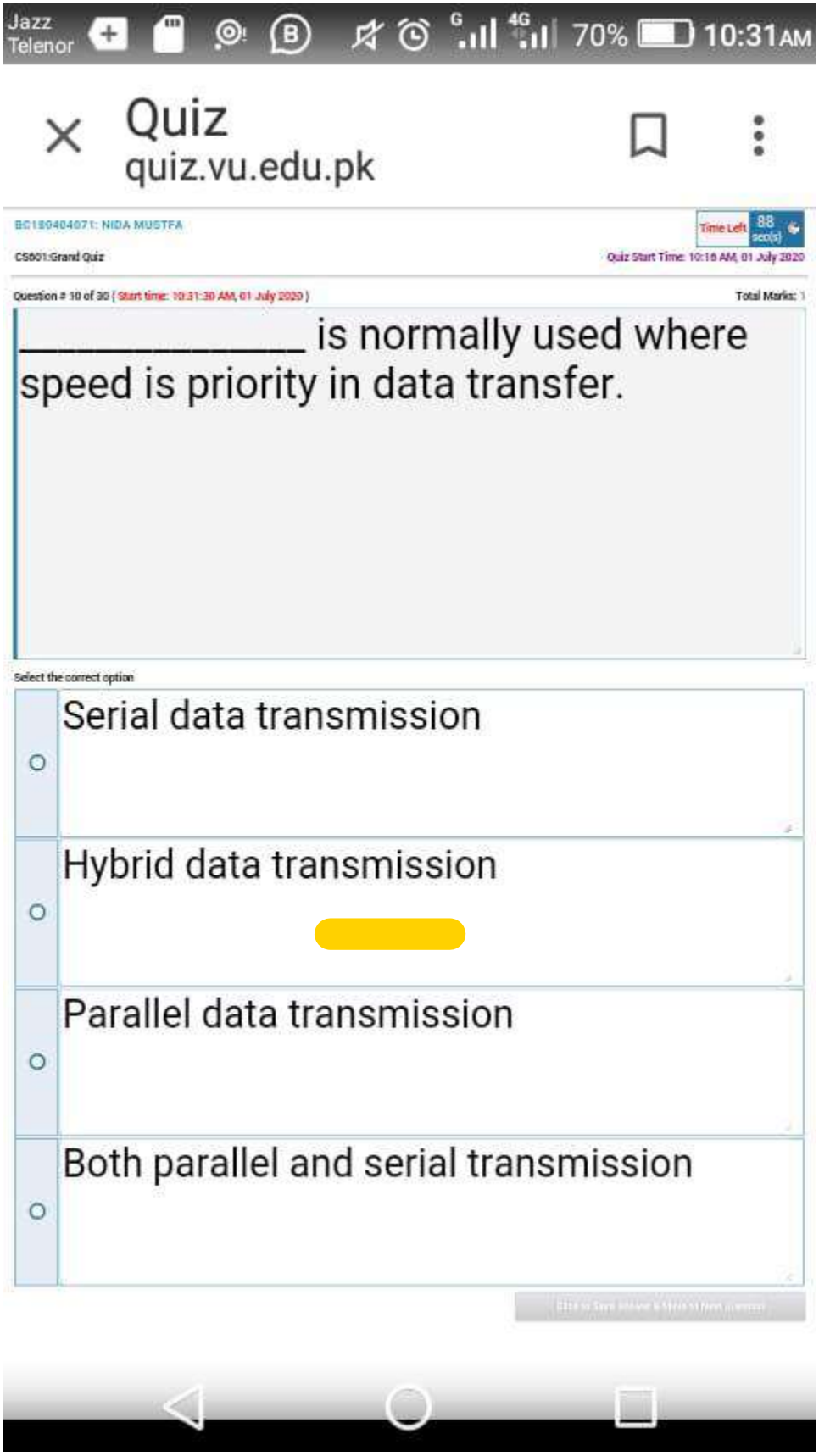

Jazz
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10:35AM
Quiz
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BC180404071: NIDA MUSTFA
Time Left 84 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 14 of 30 (Start time: 10:35:22 AM, 01 July 2020)
Total Marks: 1
_____ mode of serial transmission guarantees fixed rate data.
Select the correct option
Synchronous
Asynchronous
Isochronous
Metasochronous

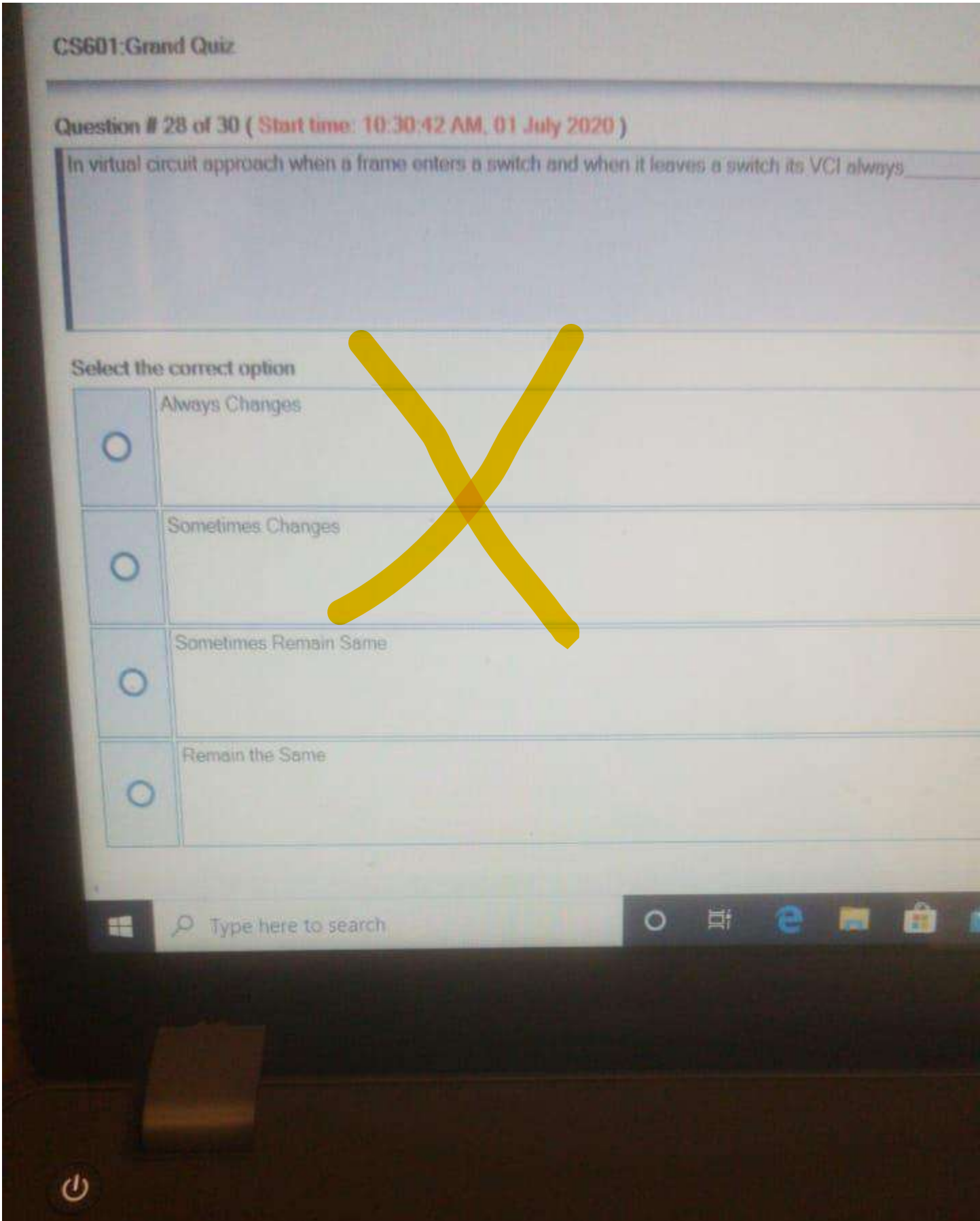

Jazz
Telenor
69%
10:35AM
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 84 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 14 of 30 (Start time: 10:35:22 AM, 01 July 2020)
Total Marks: 1
_____ mode of serial transmission guarantees fixed rate data.
Select the correct option
Synchronous
Asynchronous
Isochronous
Metasochronous

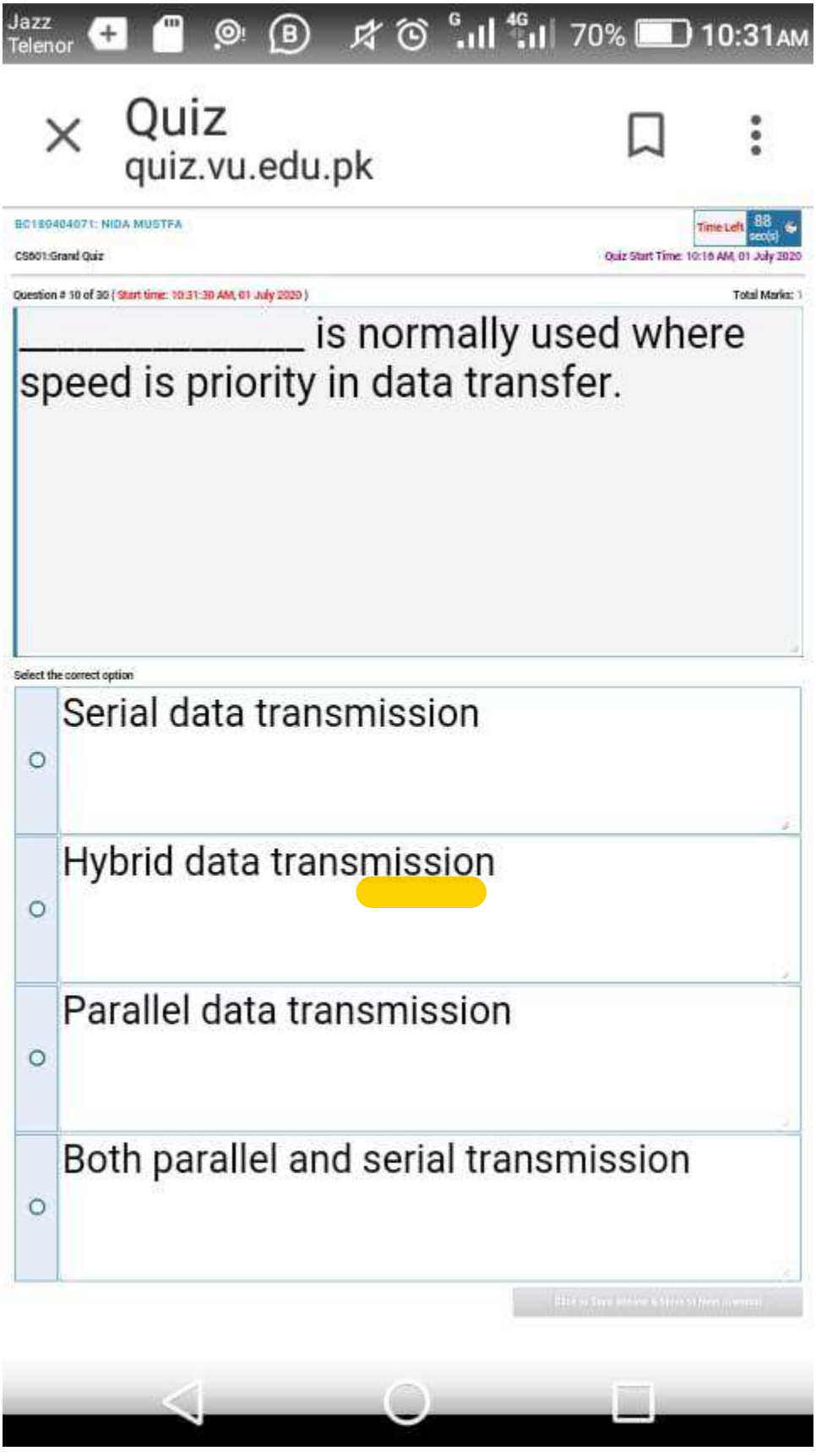

Jazz
Telenor
70%
10:33AM
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 12 of 30 (Start time: 10:33:49 AM, 01 July 2020)
Total Marks: 1
In analog transmission of digital data, the required bandwidth is always proportional to the signal rate except in _____, a digital to analog conversion technique.
Select the correct option
ASK
FSK
PSK
NSK

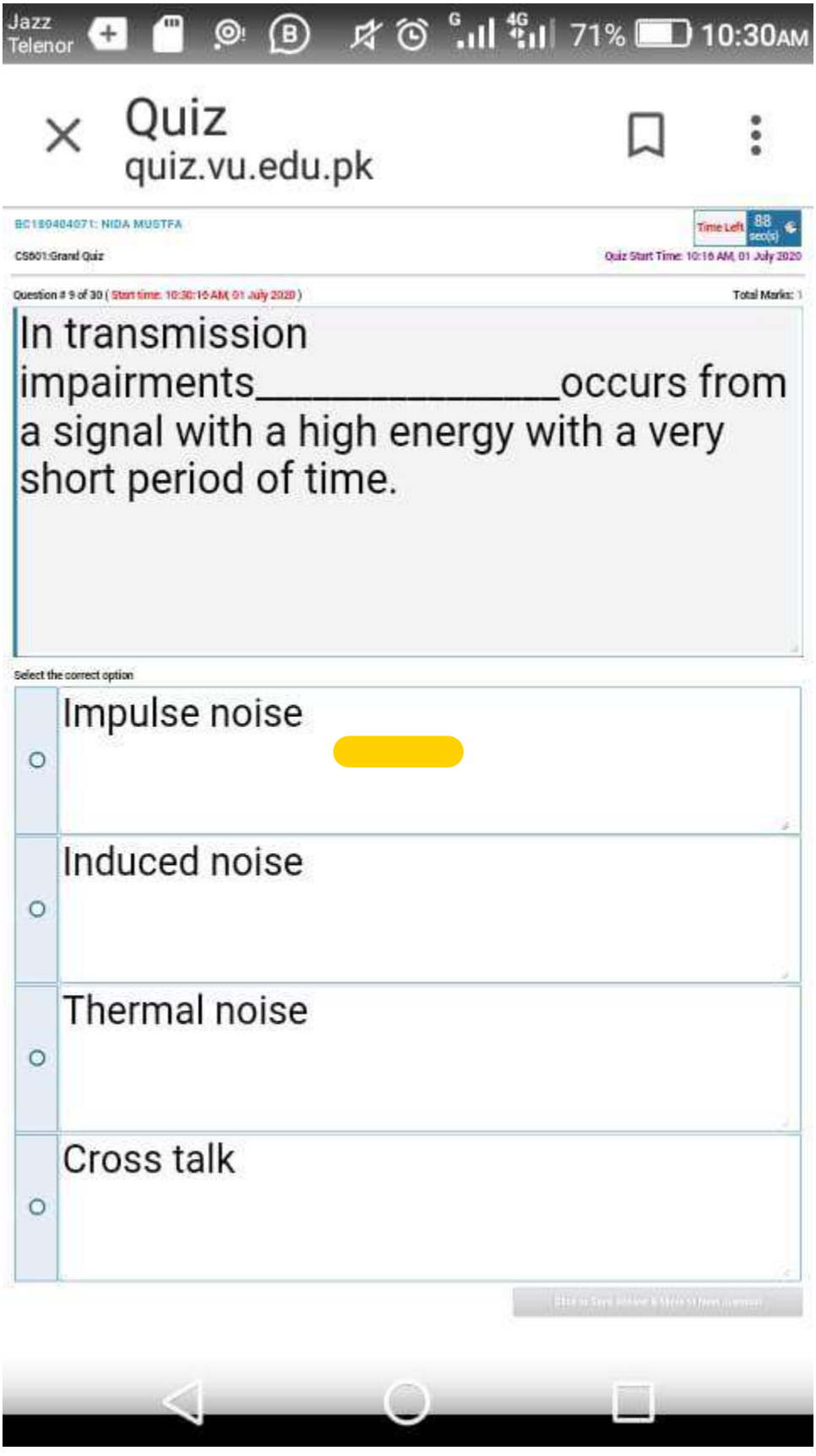

Jazz
Telenor
70%
10:33AM
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 12 of 30 (Start time: 10:33:49 AM, 01 July 2020)
Total Marks: 1
In analog transmission of digital data, the required bandwidth is always proportional to the signal rate except in _____, a digital to analog conversion technique.
Select the correct option
ASK
FSK
PSK
NSK

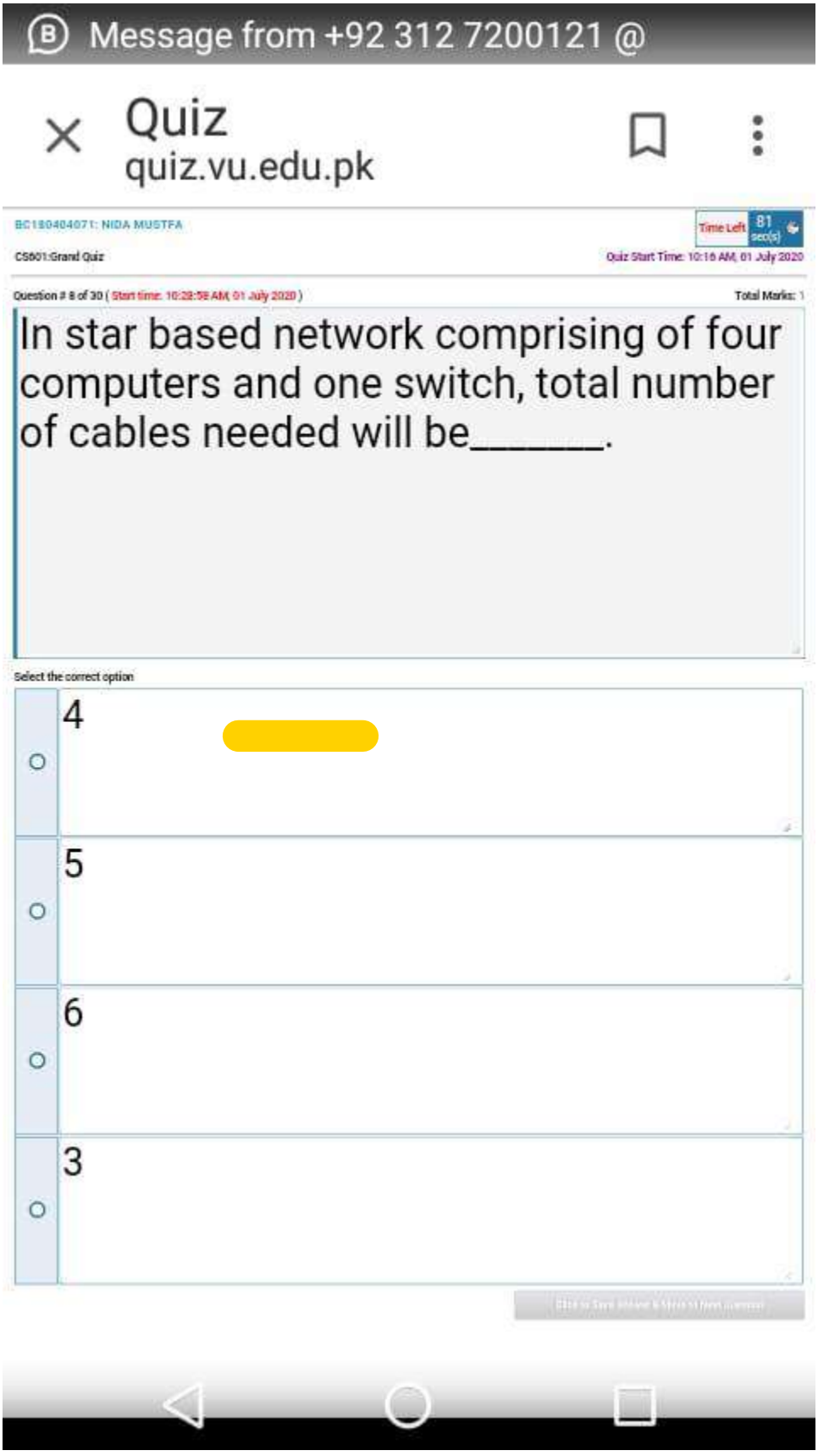

Jazz
Telenor
70%
10:33AM
Quiz
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BC180404071: NIDA MUSTFA
Time Left 77 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 11 of 30 (Start time: 10:33:01 AM, 01 July 2020)
Total Marks: 1
Electromagnetic waves ranging in frequencies between 1z and 300 GHz are called_____.
Select the correct option
Light wave
Infrared waves
Microwaves
Radio waves
Click to Save Answer & Move to Next Question

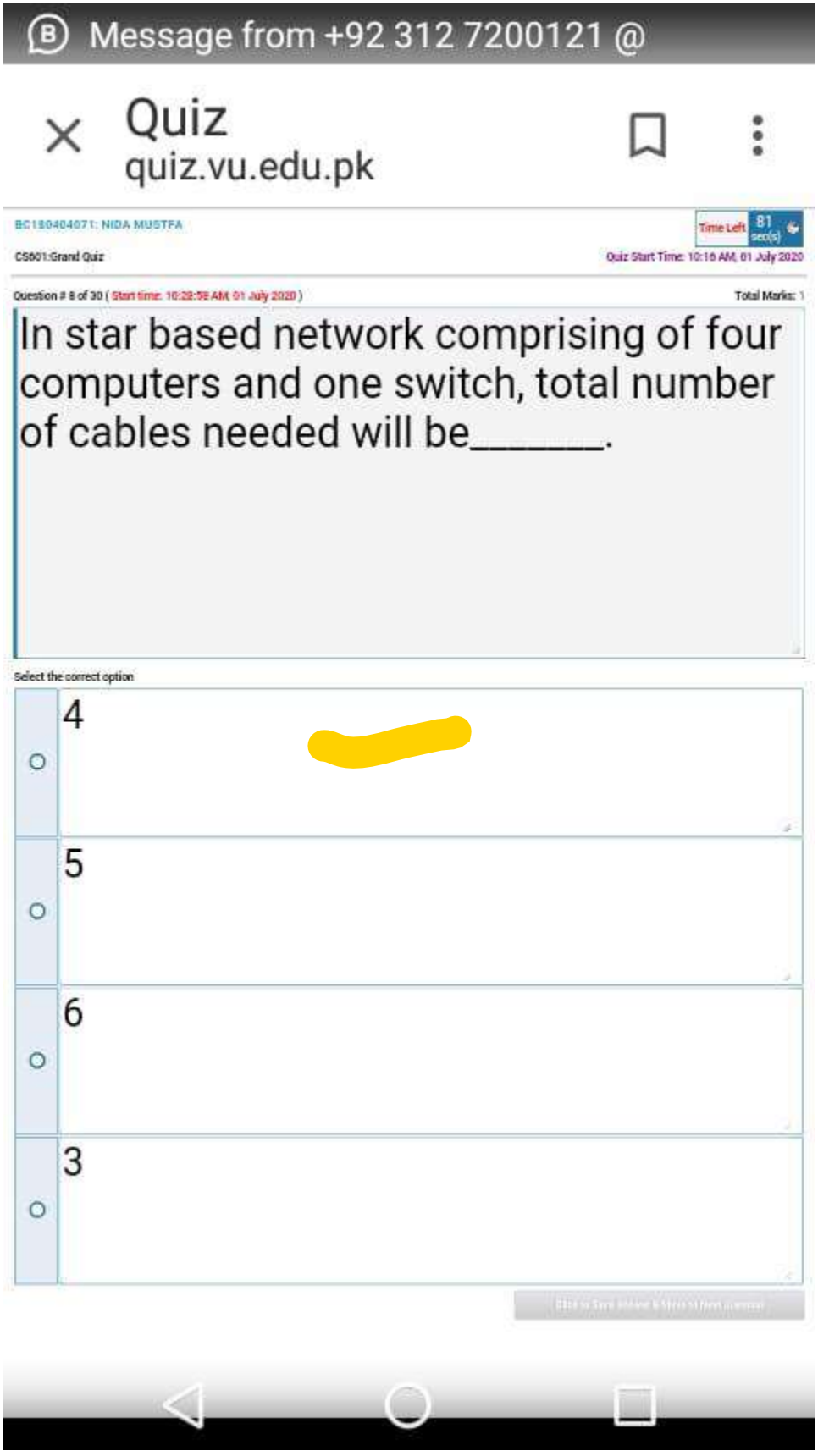

Jazz
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10:31AM
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 10 of 30 (Start time: 10:31:30 AM, 01 July 2020)
Total Marks: 1
_____ is normally used where speed is priority in data transfer.
Select the correct option
Serial data transmission
Hybrid data transmission
Parallel data transmission
Both parallel and serial transmission

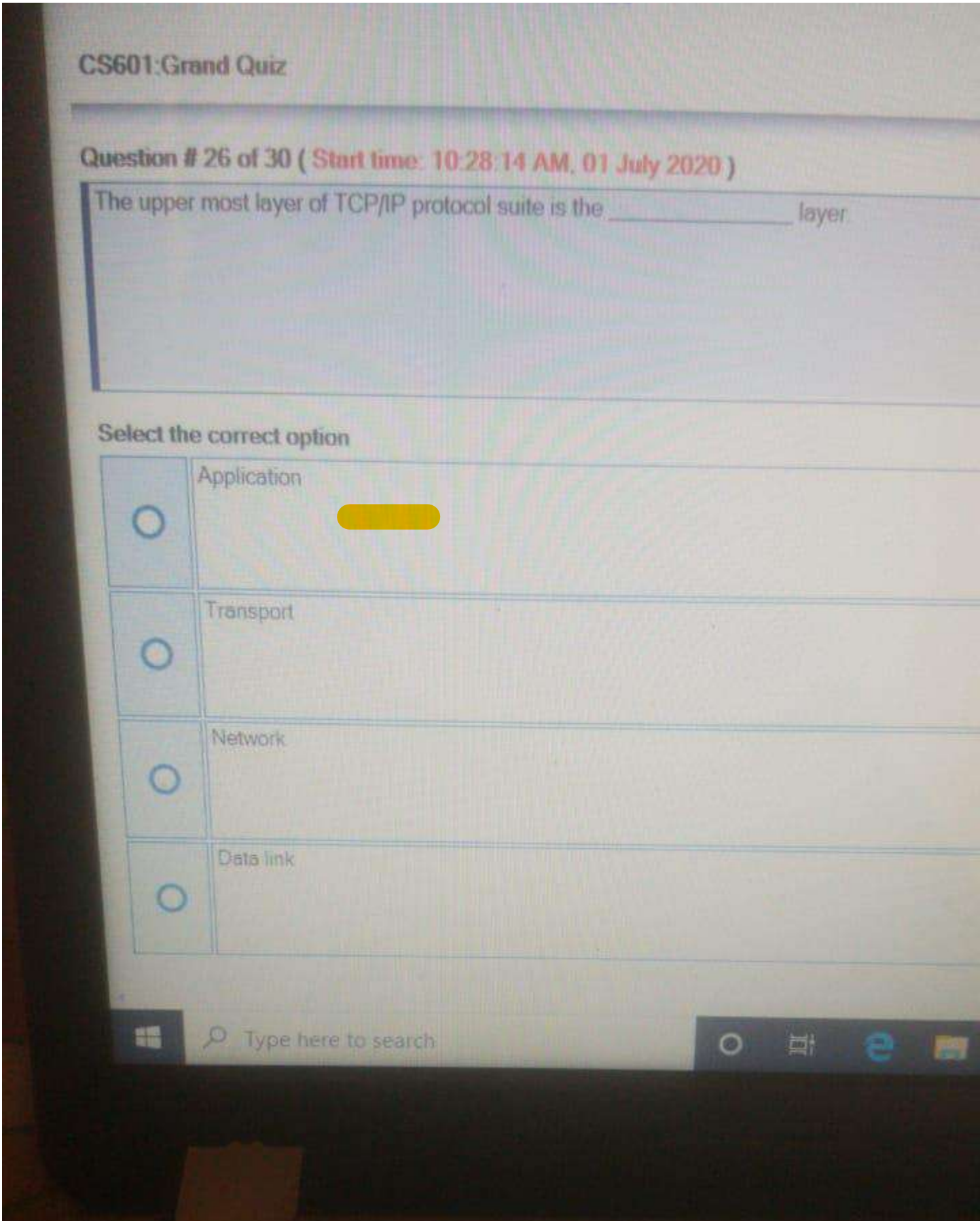

CS601:Grand Quiz
Question # 28 of 30 (Start time: 10:30:42 AM, 01 July 2020)
In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI always_____
Select the correct option
Always Changes
Sometimes Changes
Sometimes Remain Same
Remain the Same
Type here to search

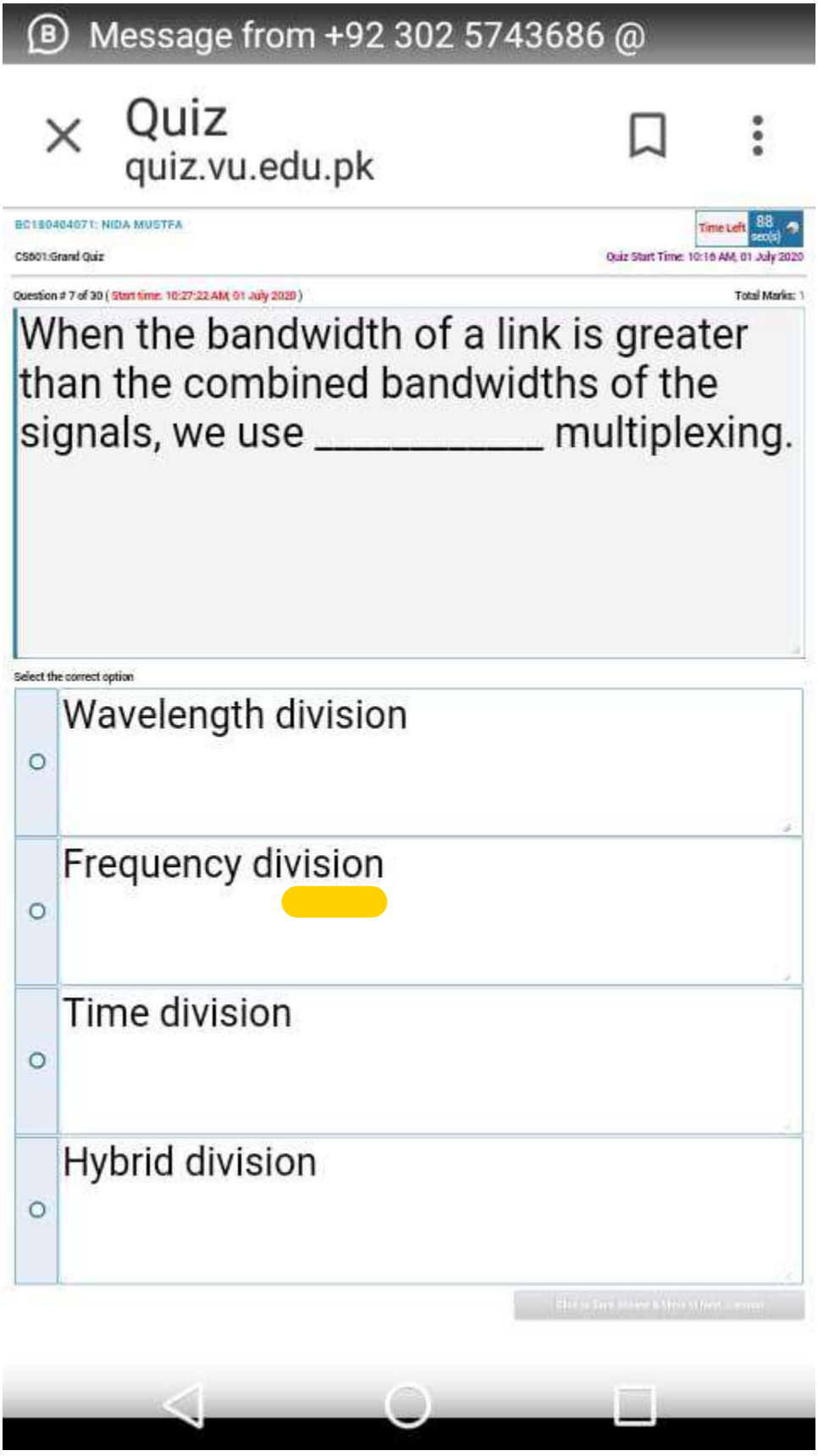

Jazz
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10:31AM
Quiz
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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 10 of 30 (Start time: 10:31:30 AM, 01 July 2020)
Total Marks: 1
_____ is normally used where speed is priority in data transfer.
Select the correct option
Serial data transmission
Hybrid data transmission
Parallel data transmission
Both parallel and serial transmission

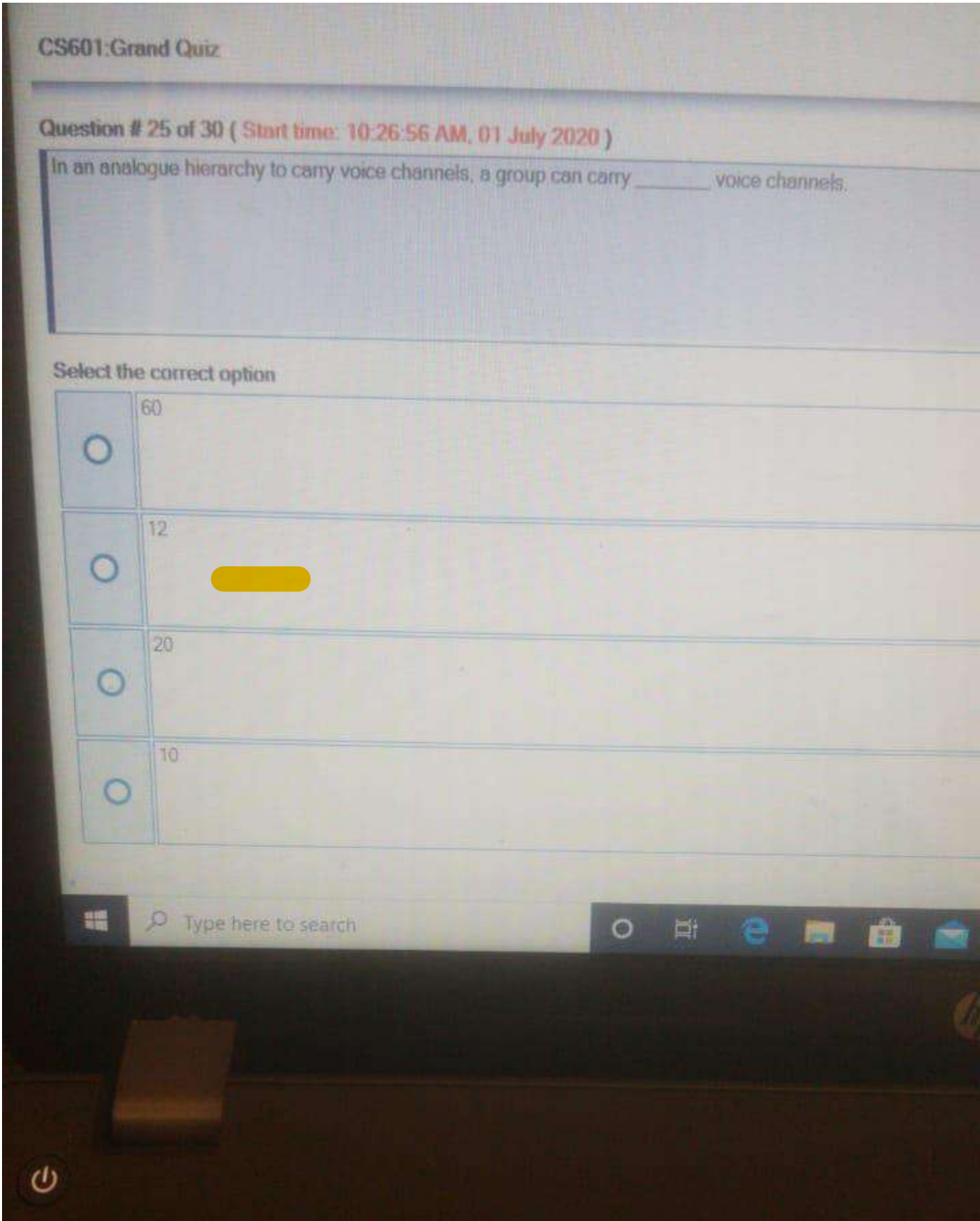

Jazz
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71%
10:30AM
Quiz
quiz.vu.edu.pk
BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 9 of 30 (Start time: 10:30:16 AM, 01 July 2020)
Total Marks: 1
In transmission impairments_____occurs from a signal with a high energy with a very short period of time.
Select the correct option
Impulse noise
Induced noise
Thermal noise
Cross talk

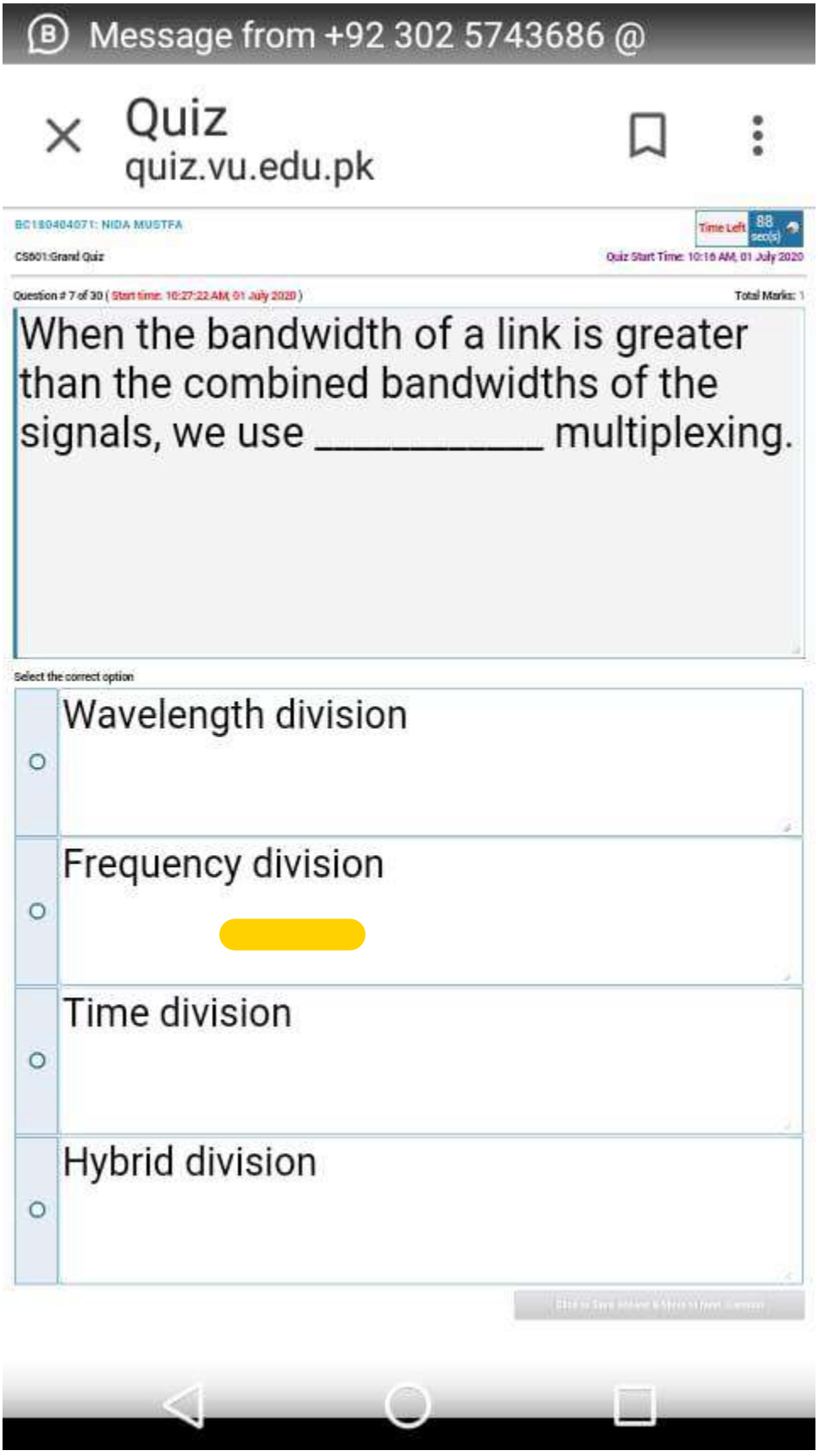

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BC180404071: NIDA MUSTFA
Time Left 81 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 8 of 30 (Start time: 10:28:58 AM, 01 July 2020)
Total Marks: 1
In star based network comprising of four computers and one switch, total number of cables needed will be_____.
Select the correct option
4
5
6
3

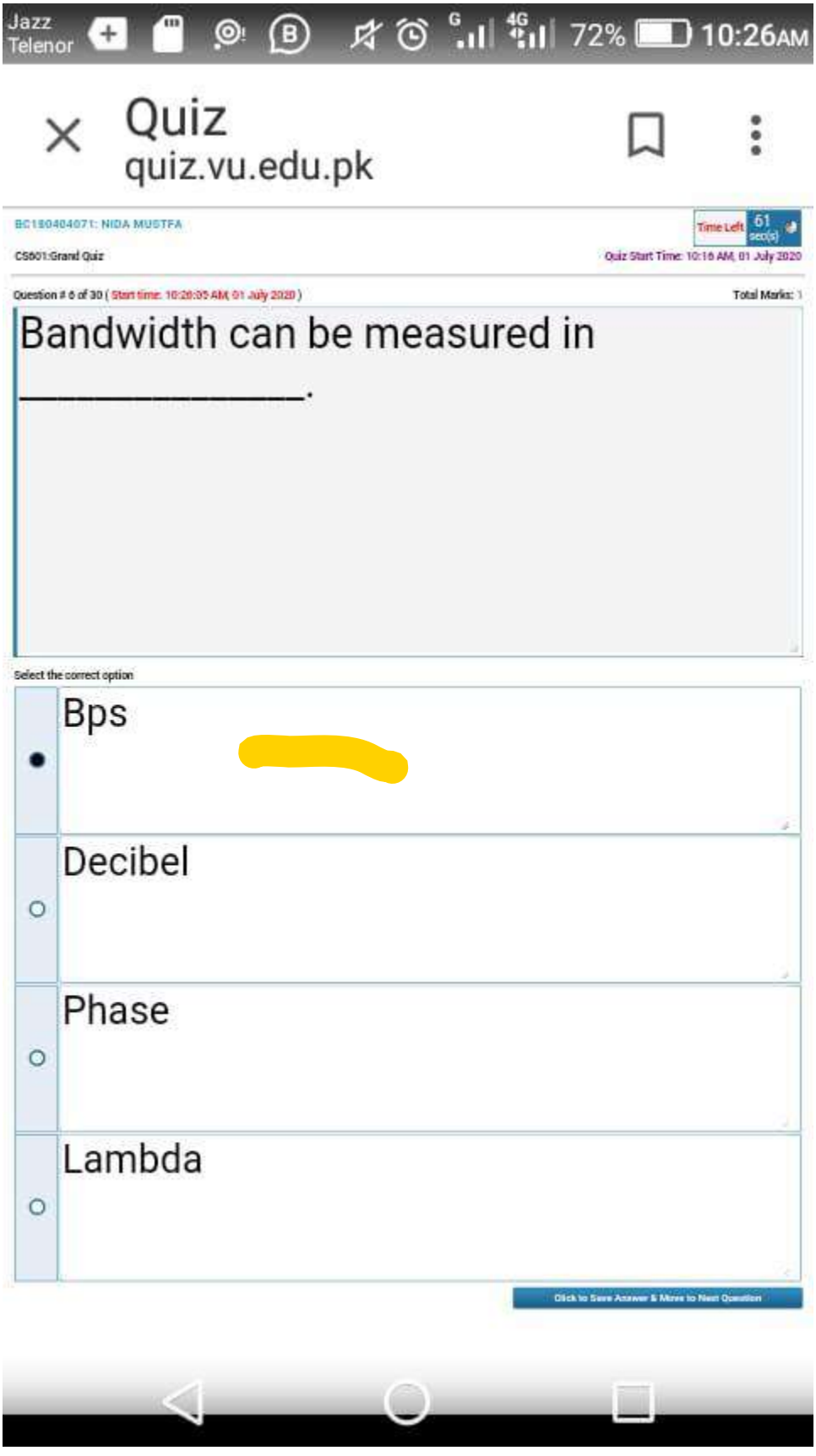

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BC180404071: NIDA MUSTFA
Time Left 81 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 8 of 30 (Start time: 10:28:58 AM, 01 July 2020)
Total Marks: 1
In star based network comprising of four computers and one switch, total number of cables needed will be_____.
Select the correct option
4
5
6
3

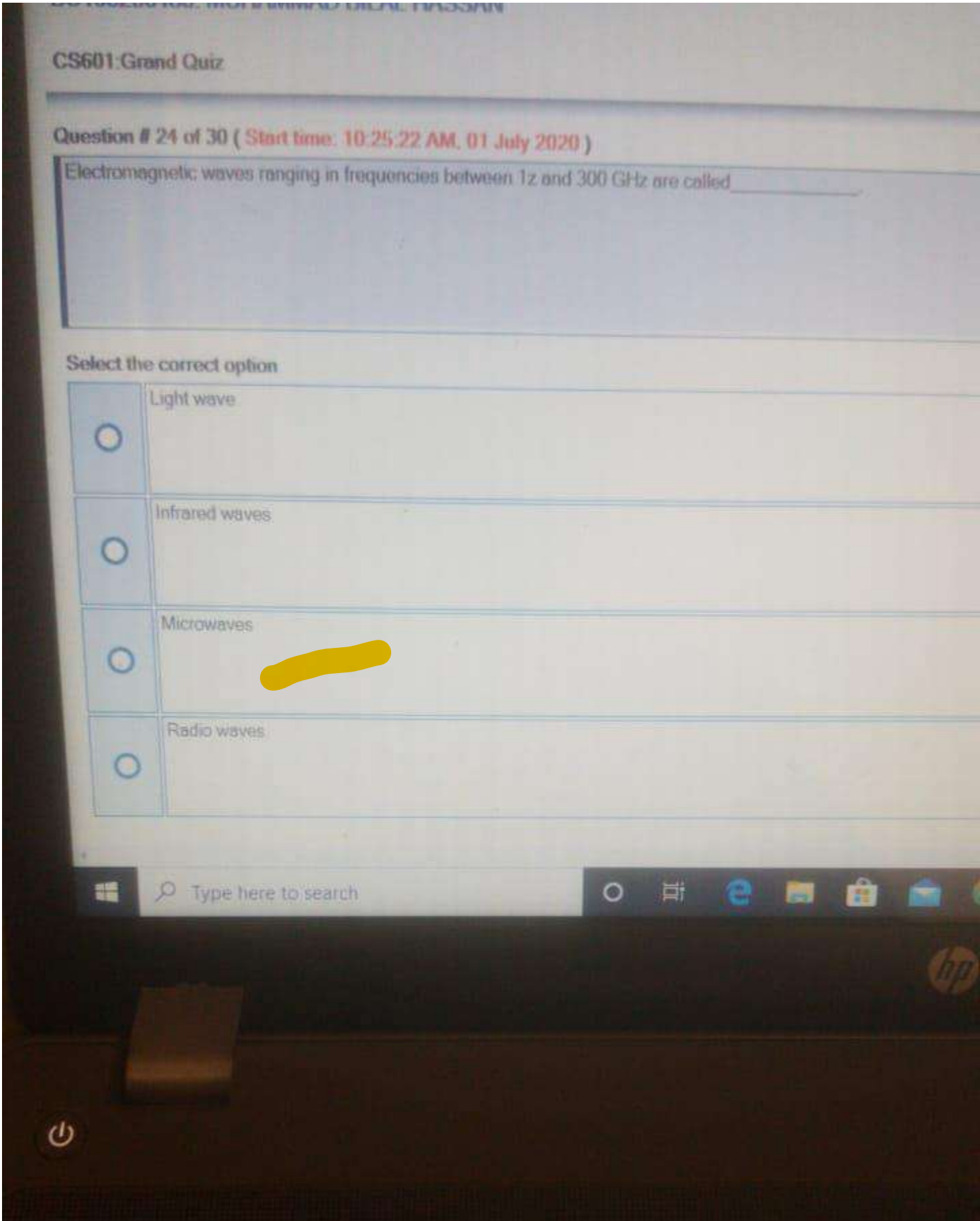

CS601:Grand Quiz
Question # 26 of 30 (Start time: 10:28:14 AM, 01 July 2020)
The upper most layer of TCP/IP protocol suite is the _____ layer
Select the correct option
Application
Transport
Network
Data link
Type here to search

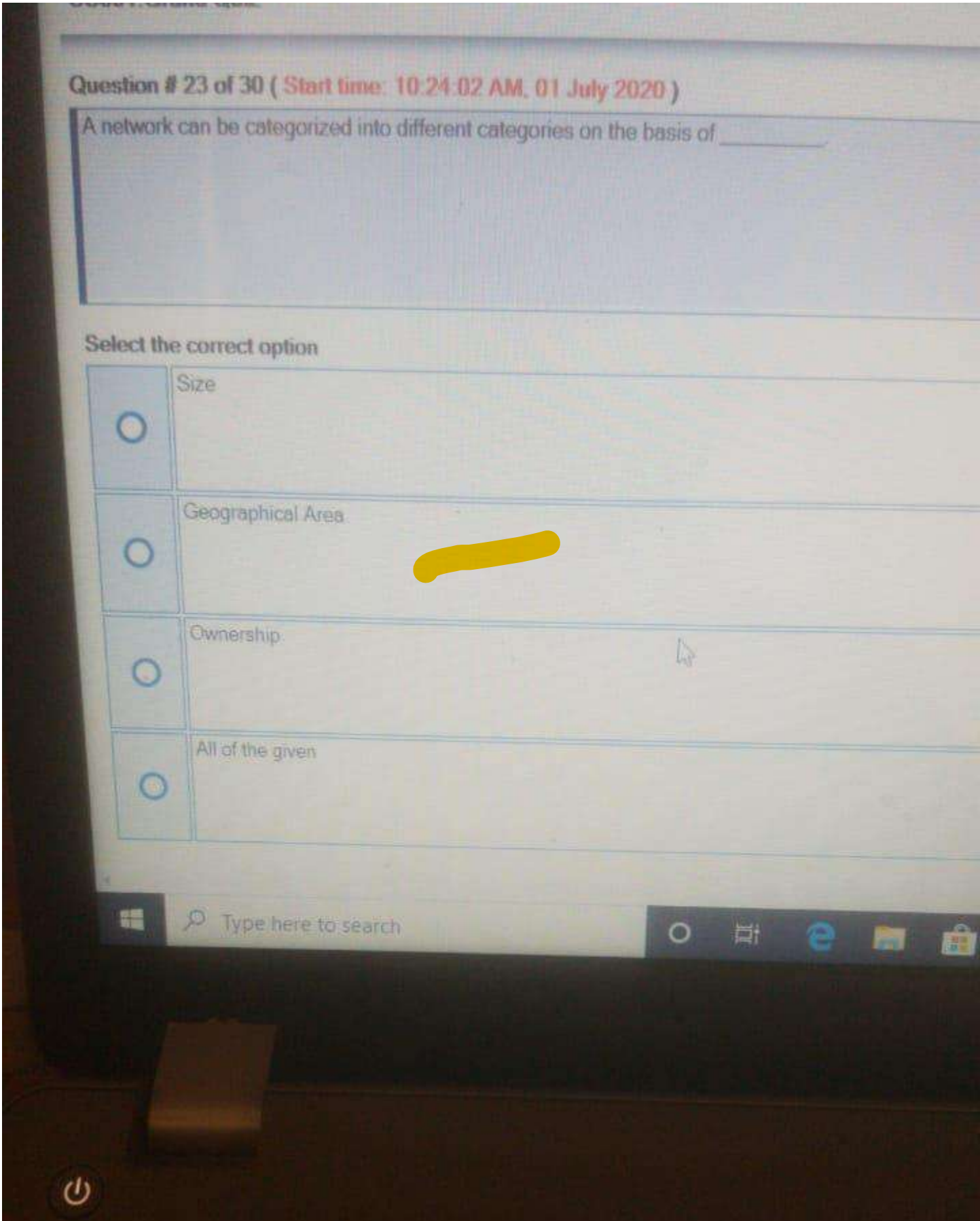

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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 7 of 30 (Start time: 10:27:22 AM, 01 July 2020)
Total Marks: 1
When the bandwidth of a link is greater than the combined bandwidths of the signals, we use _____ multiplexing.
Select the correct option
Wavelength division
Frequency division
Time division
Hybrid division

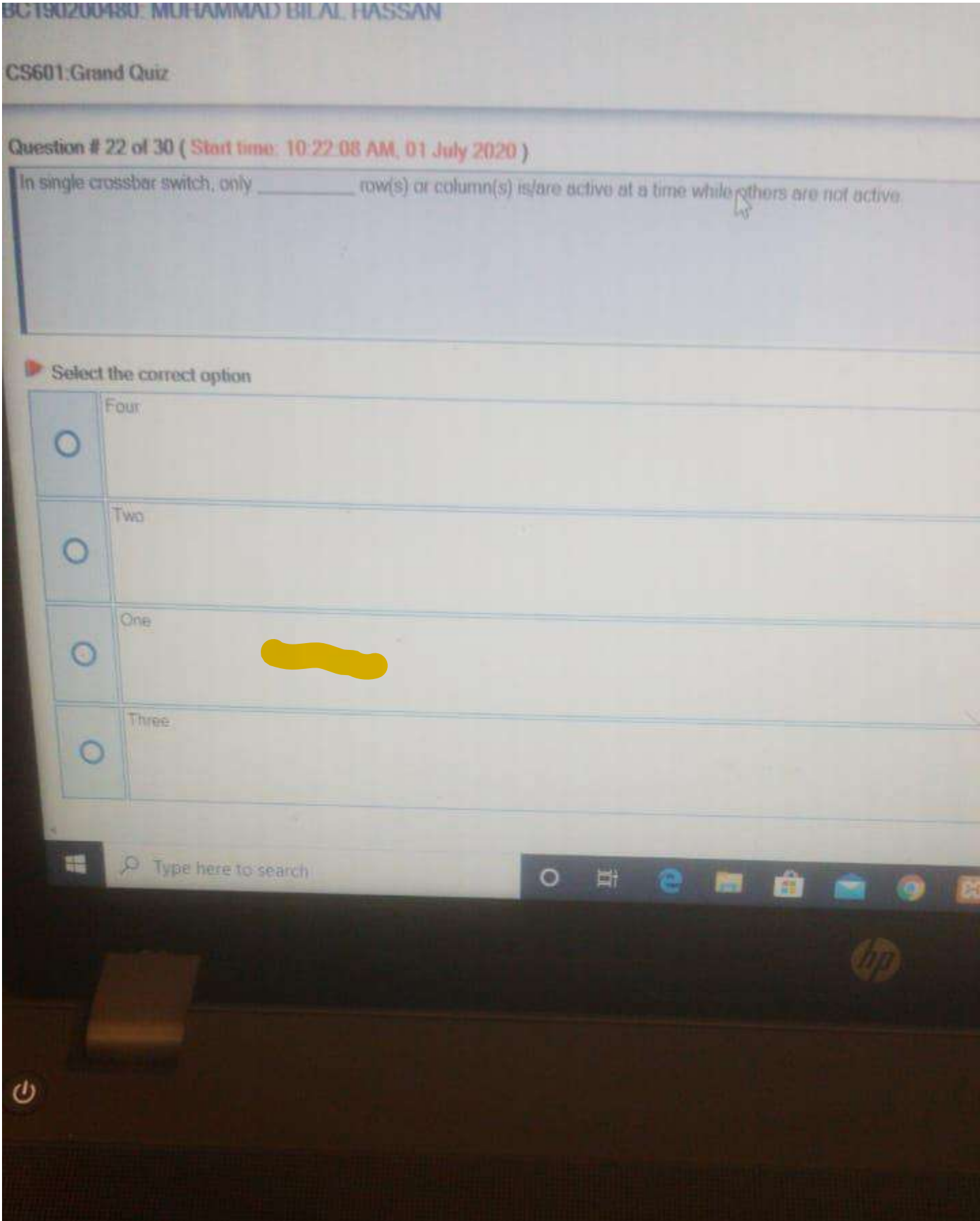

CS601:Grand Quiz
Question # 25 of 30 (Start time: 10:26:56 AM, 01 July 2020)
In an analogue hierarchy to carry voice channels, a group can carry _____ voice channels.
Select the correct option
60
12
20
10
Type here to search

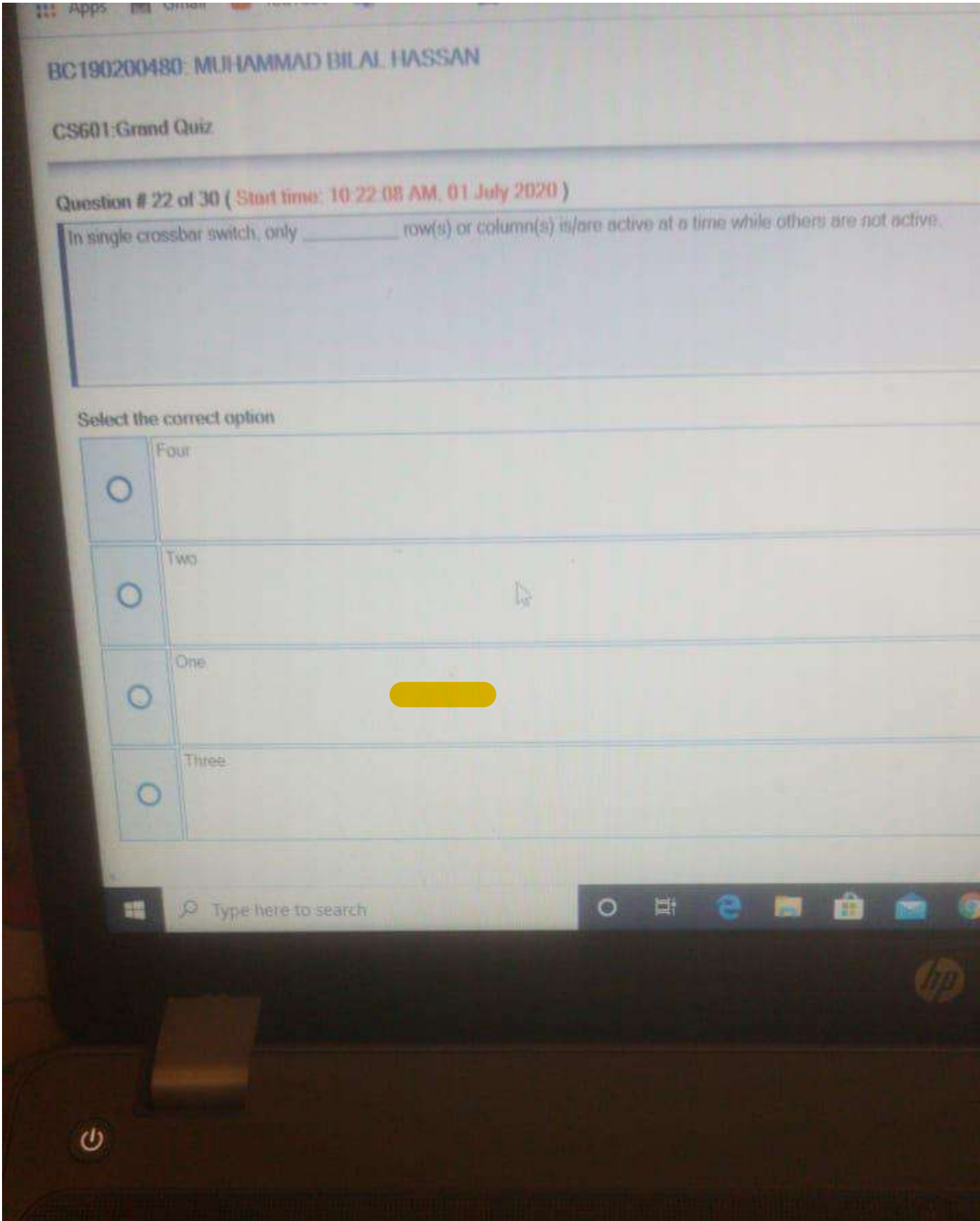

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BC180404071: NIDA MUSTFA
Time Left 88 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 7 of 30 (Start time: 10:27:22 AM, 01 July 2020)
Total Marks: 1
When the bandwidth of a link is greater than the combined bandwidths of the signals, we use _____ multiplexing.
Select the correct option
Wavelength division
Frequency division
Time division
Hybrid division

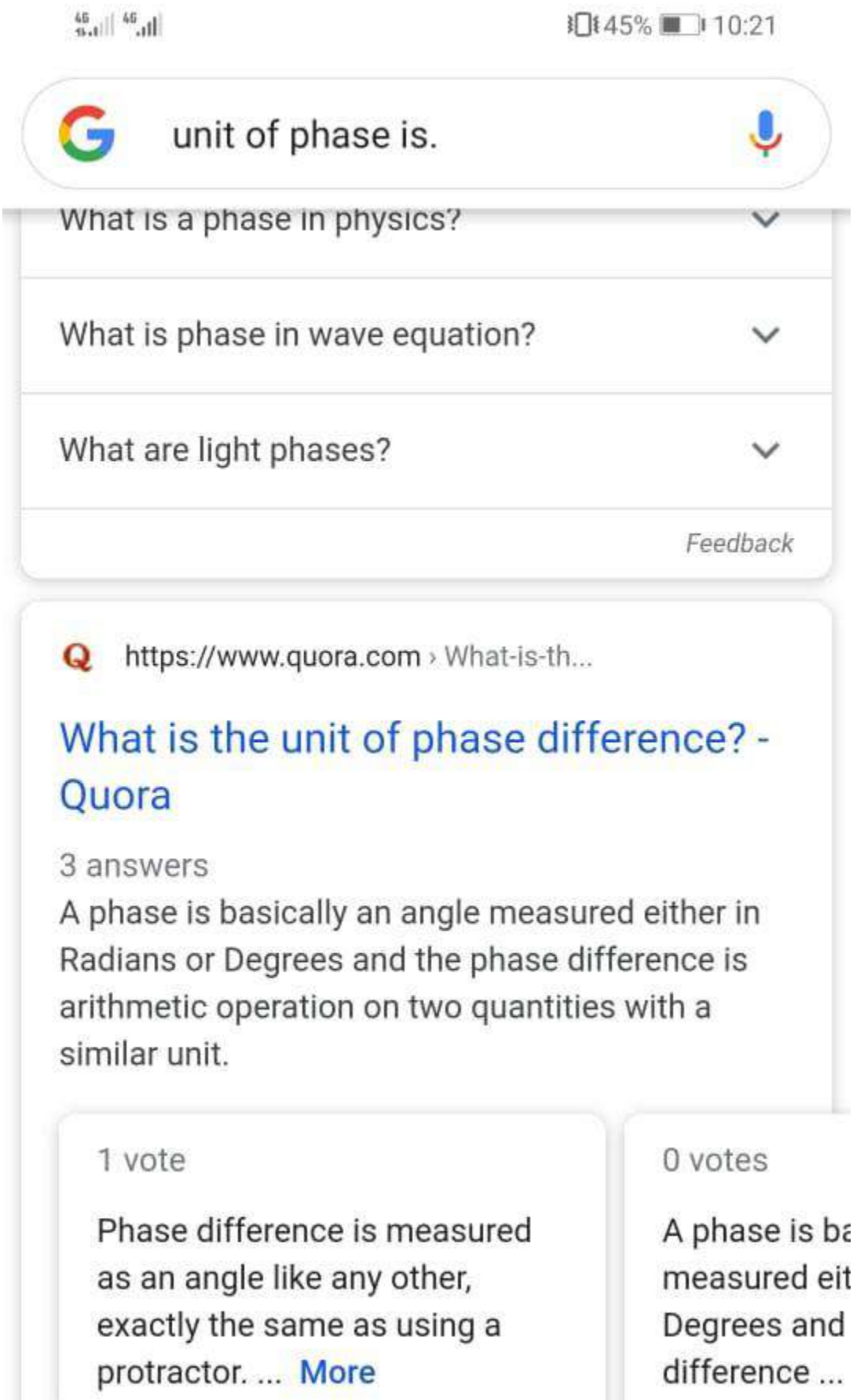

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Quiz
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BC180404071: NIDA MUSTFA
Time Left 61 sec(s)
CS601:Grand Quiz
Quiz Start Time: 10:16 AM, 01 July 2020
Question # 6 of 30 (Start time: 10:20:05 AM, 01 July 2020)
Total Marks: 1
Bandwidth can be measured in _____.
Select the correct option
Bps
Decibel
Phase
Lambda
Click to Save Answer & Move to Next Question

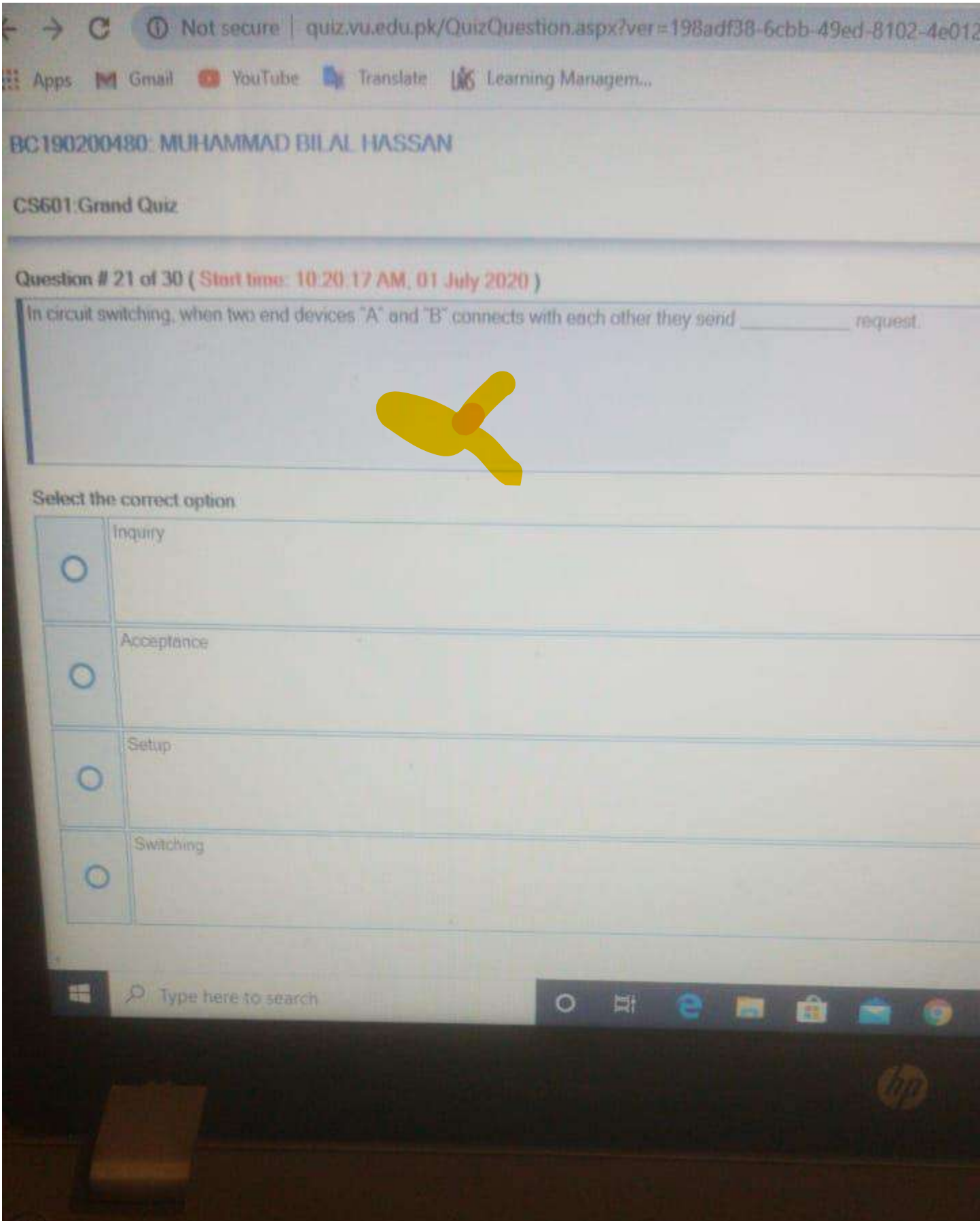

CS601:Grand Quiz
Question # 24 of 30 (Start time: 10:25:22 AM, 01 July 2020)
Electromagnetic waves ranging in frequencies between 1z and 300 GHz are called_____
Select the correct option
Light wave
Infrared waves
Microwaves
Radio waves
Type here to search

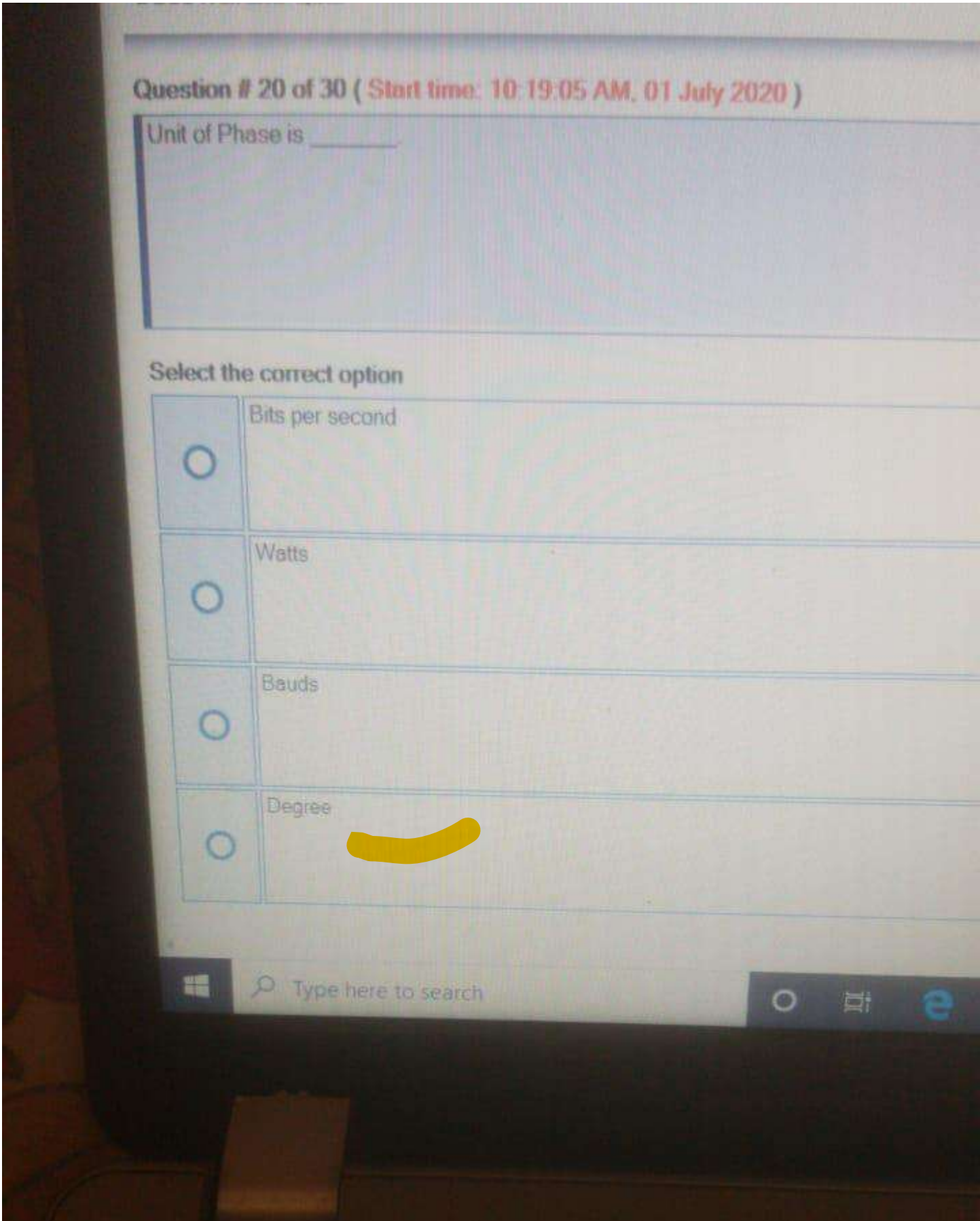

Question # 23 of 30 (Start time: 10:24:02 AM, 01 July 2020)
A network can be categorized into different categories on the basis of _____
Select the correct option
Size
Geographical Area
Ownership
All of the given
Type here to search

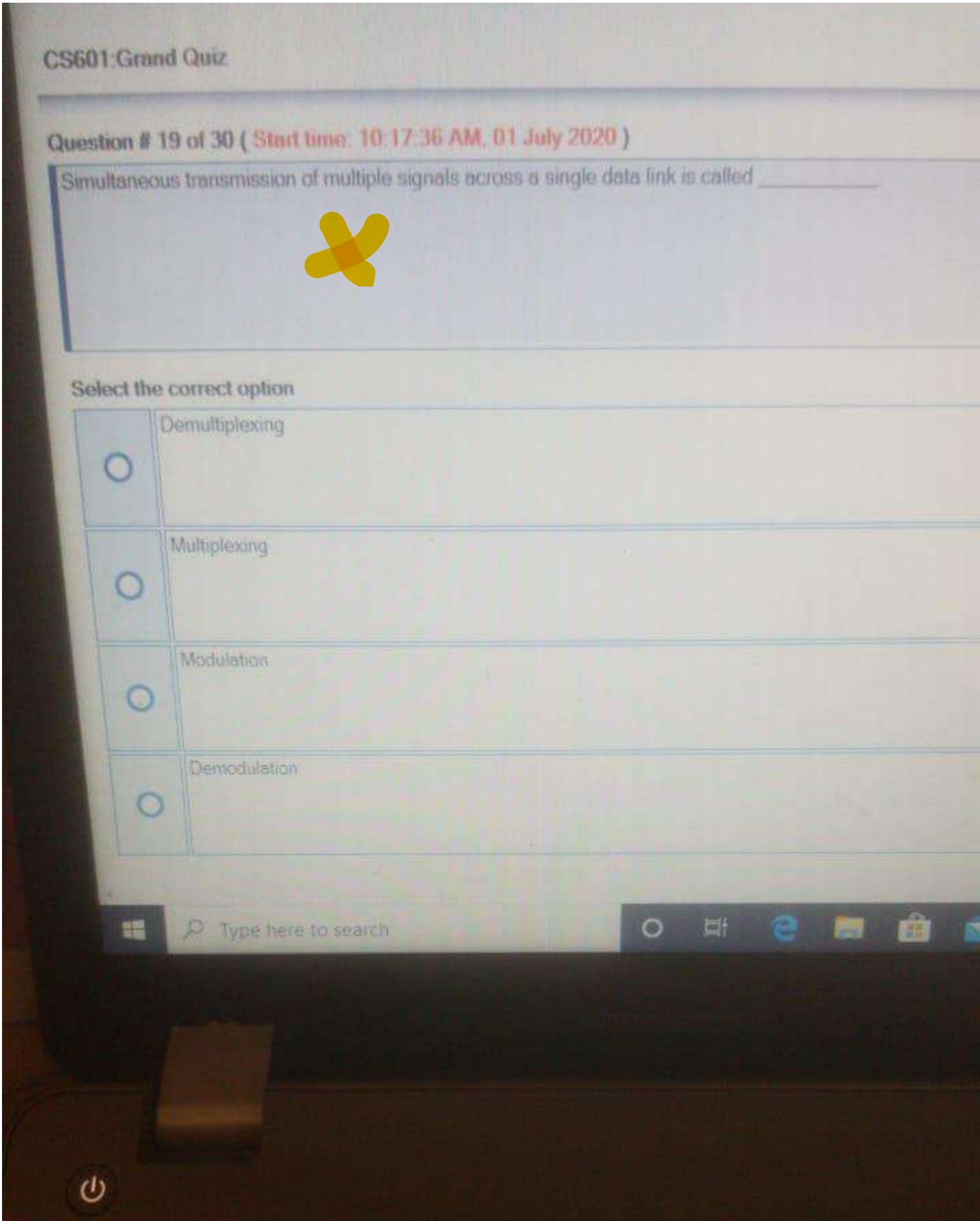

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 22 of 30 (Start time: 10:22:08 AM, 01 July 2020)
In single crossbar switch, only _____ row(s) or column(s) is/are active at a time while others are not active
Select the correct option
Four
Two
One
Three
Type here to search

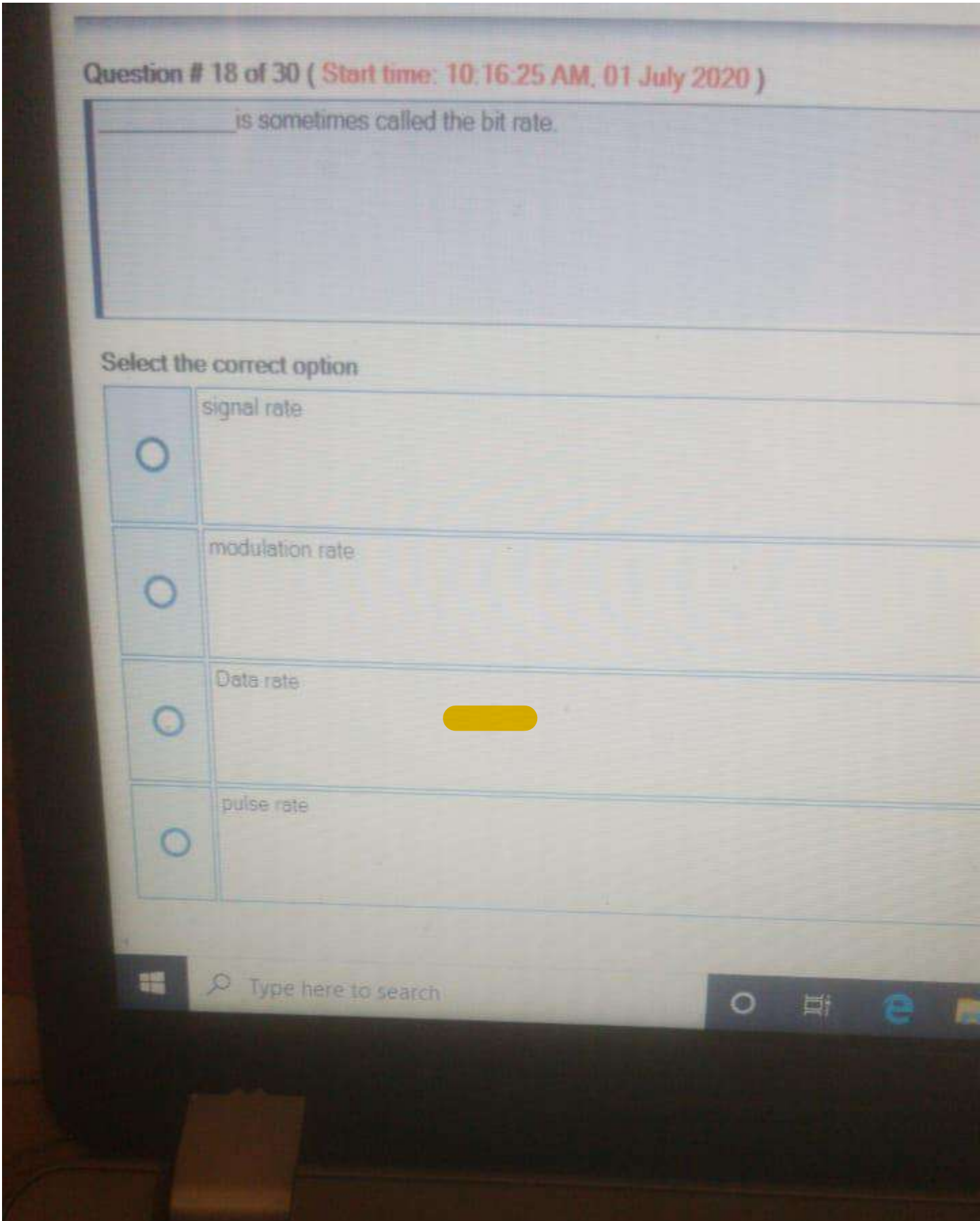

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 22 of 30 (Start time: 10:22:08 AM, 01 July 2020)
In single crossbar switch, only _____ row(s) or column(s) is/are active at a time while others are not active.
Select the correct option
Four
Two
One
Three
Type here to search

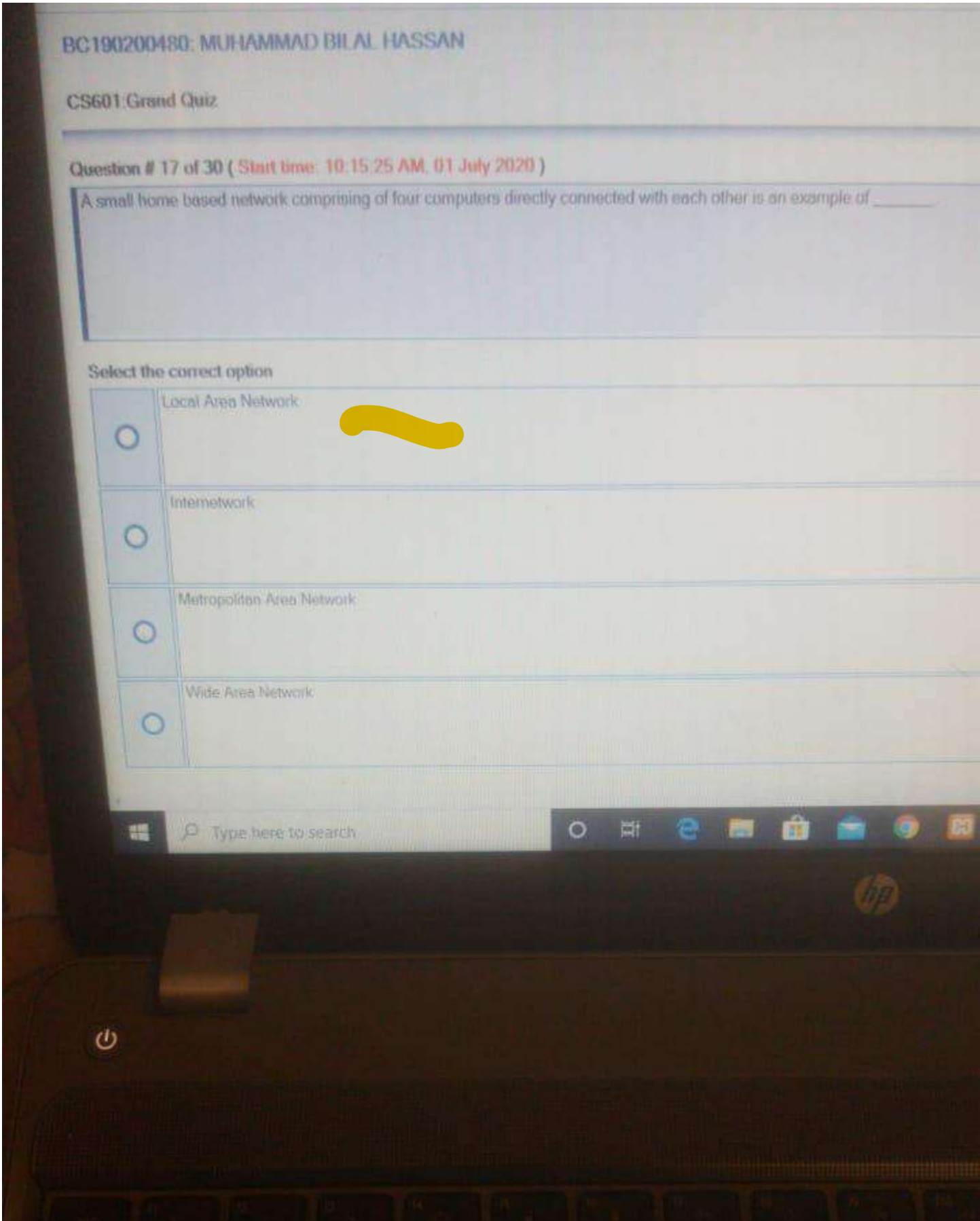

45% 10:21
unit of phase is.
What is a phase in physics?
What is phase in wave equation?
What are light phases?
Feedback
https://www.quora.com › What-is-th...
What is the unit of phase difference? - Quora
3 answers
A phase is basically an angle measured either in Radians or Degrees and the phase difference is arithmetic operation on two quantities with a similar unit.
1 vote
Phase difference is measured as an angle like any other, exactly the same as using a protractor. ... More
0 votes
A phase is ba
measured eit
Degrees and
difference ...

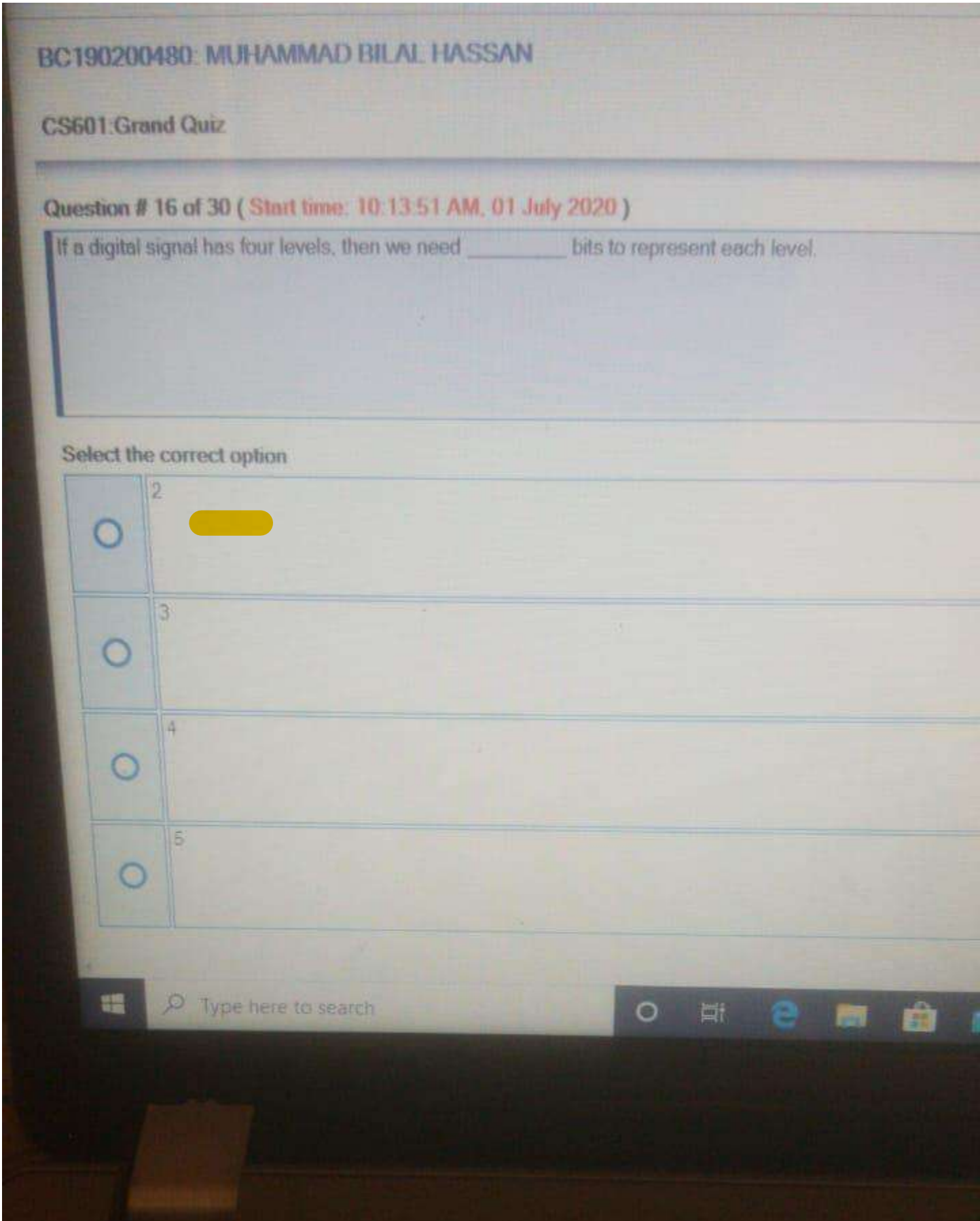

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BC190200480: MUHAMMAD BILAL HASSAN
CS601 Grand Quiz
Question # 21 of 30 (Start time: 10:20:17 AM, 01 July 2020)
In circuit switching, when two end devices "A" and "B" connects with each other they send _____ request.
Select the correct option
Inquiry
Acceptance
Setup
Switching
Type here to search

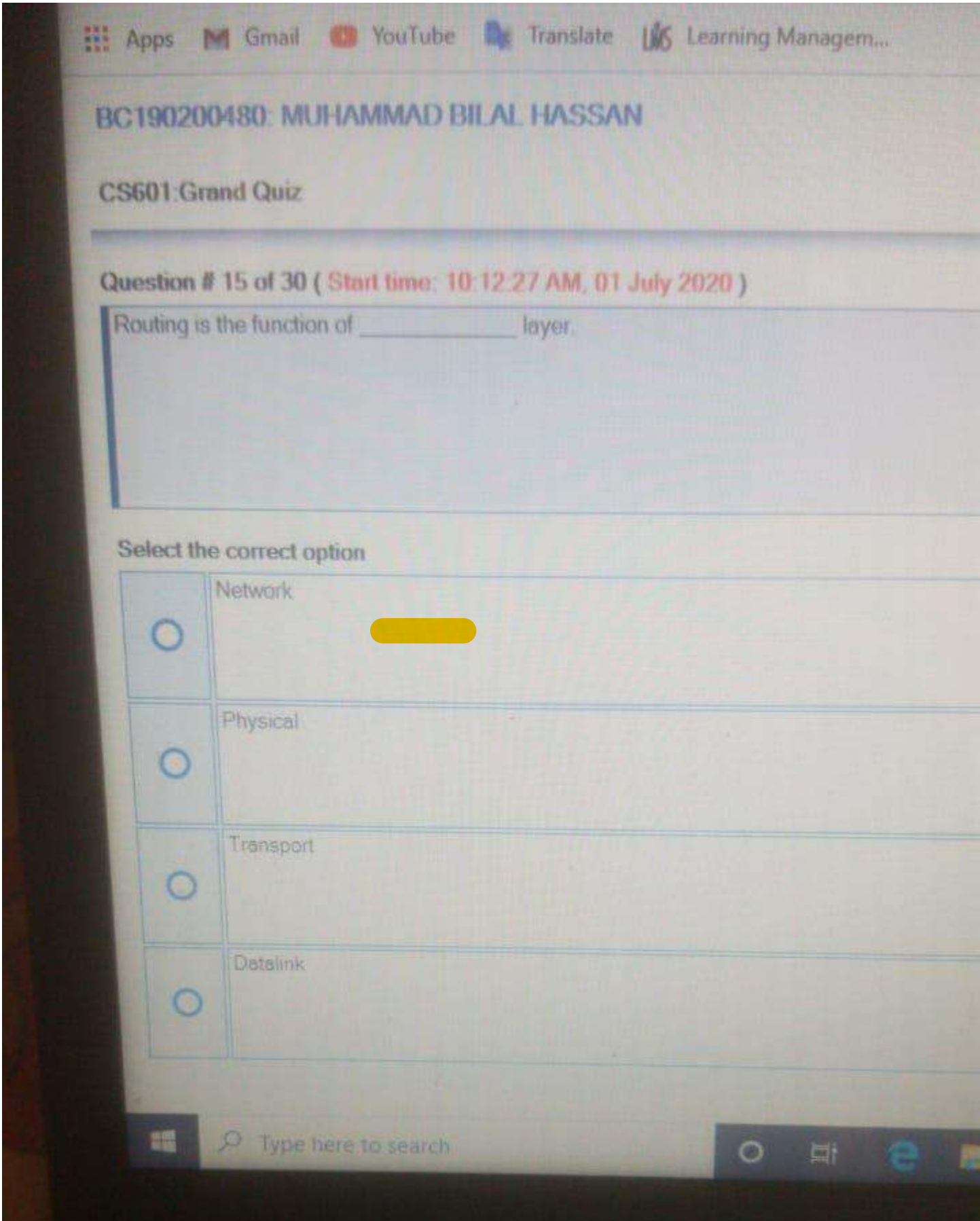

Question # 20 of 30 (Start time: 10:19:05 AM, 01 July 2020)
Unit of Phase is _____
Select the correct option
Bits per second
Watts
Bauds
Degree
Type here to search

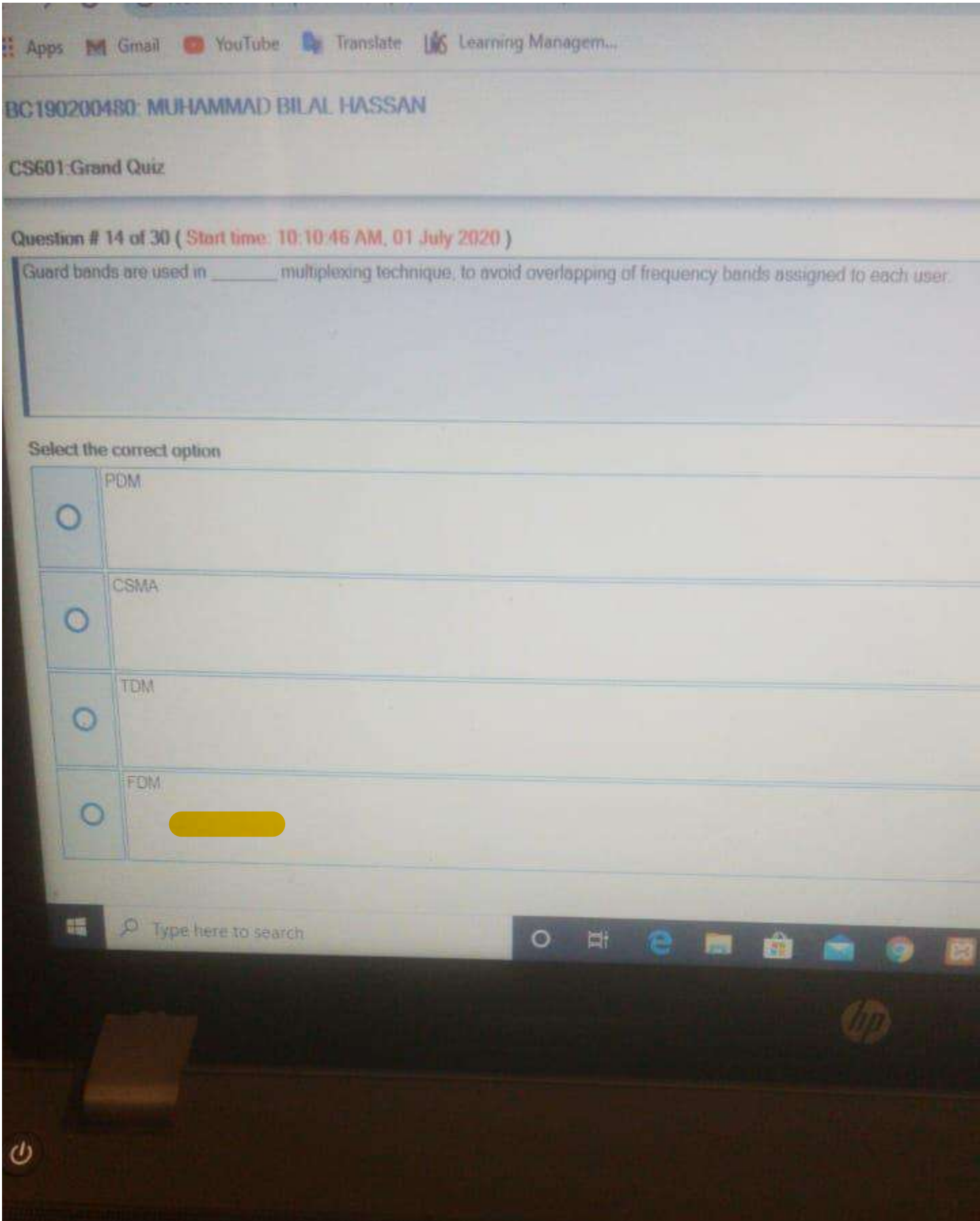

CS601:Grand Quiz
Question # 19 of 30 (Start time: 10:17:36 AM, 01 July 2020)
Simultaneous transmission of multiple signals across a single data link is called _____
Select the correct option
Demultiplexing
Multiplexing
Modulation
Demodulation
Type here to search

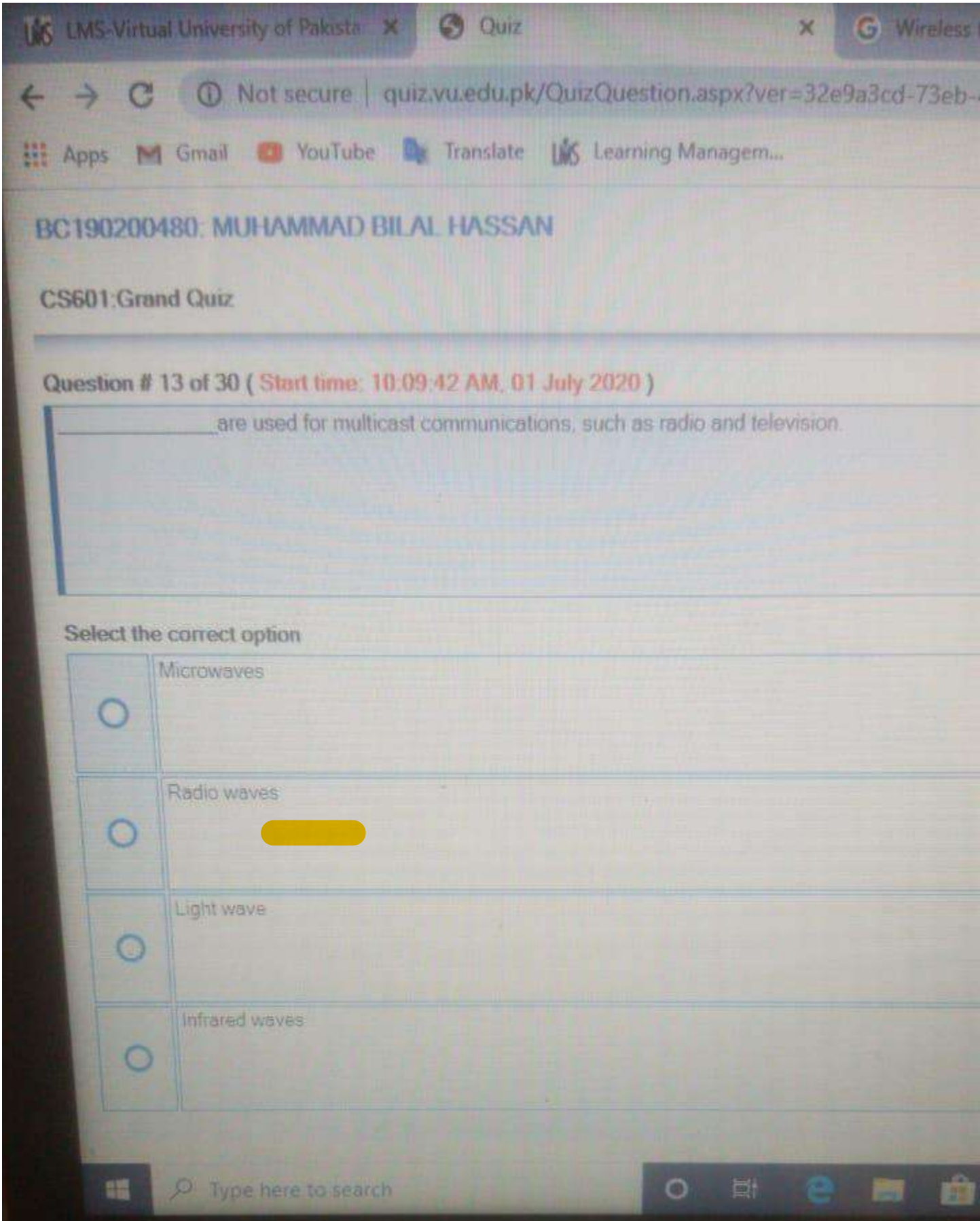

Question # 18 of 30 (Start time: 10:16:25 AM, 01 July 2020)
_____is sometimes called the bit rate.
Select the correct option
signal rate
modulation rate
Data rate
pulse rate
Type here to search

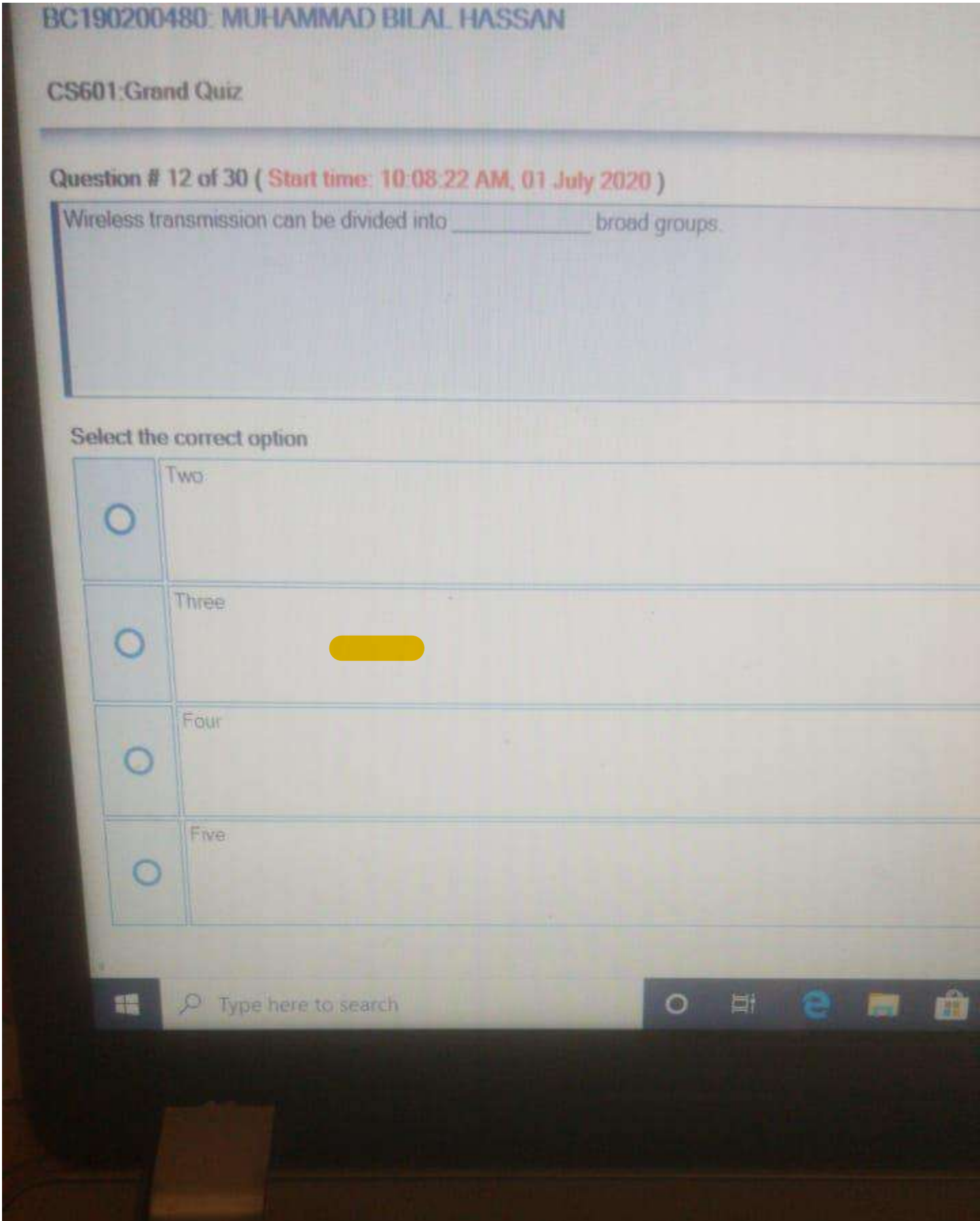

BC190200480: MUHAMMAD BILAL HASSAN
CS601 Grand Quiz
Question # 17 of 30 (Start time: 10:15:25 AM, 01 July 2020)
A small home based network comprising of four computers directly connected with each other is an example of _____
Select the correct option
Local Area Network
Internetwork
Metropolitan Area Network
Wide Area Network
Type here to search

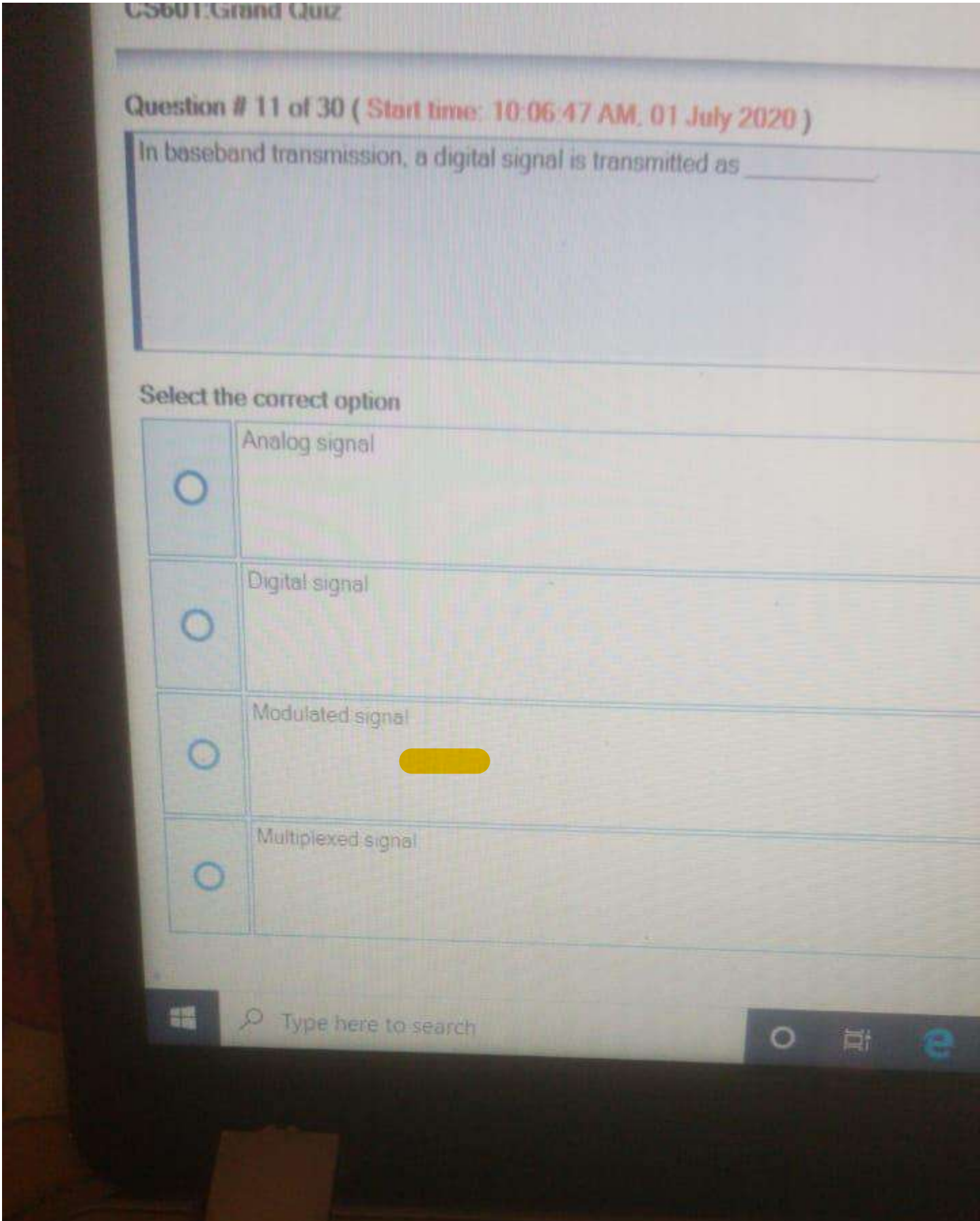

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 16 of 30 (Start time: 10:13:51 AM, 01 July 2020)
If a digital signal has four levels, then we need _____ bits to represent each level.
Select the correct option
2
3
4
5
Type here to search

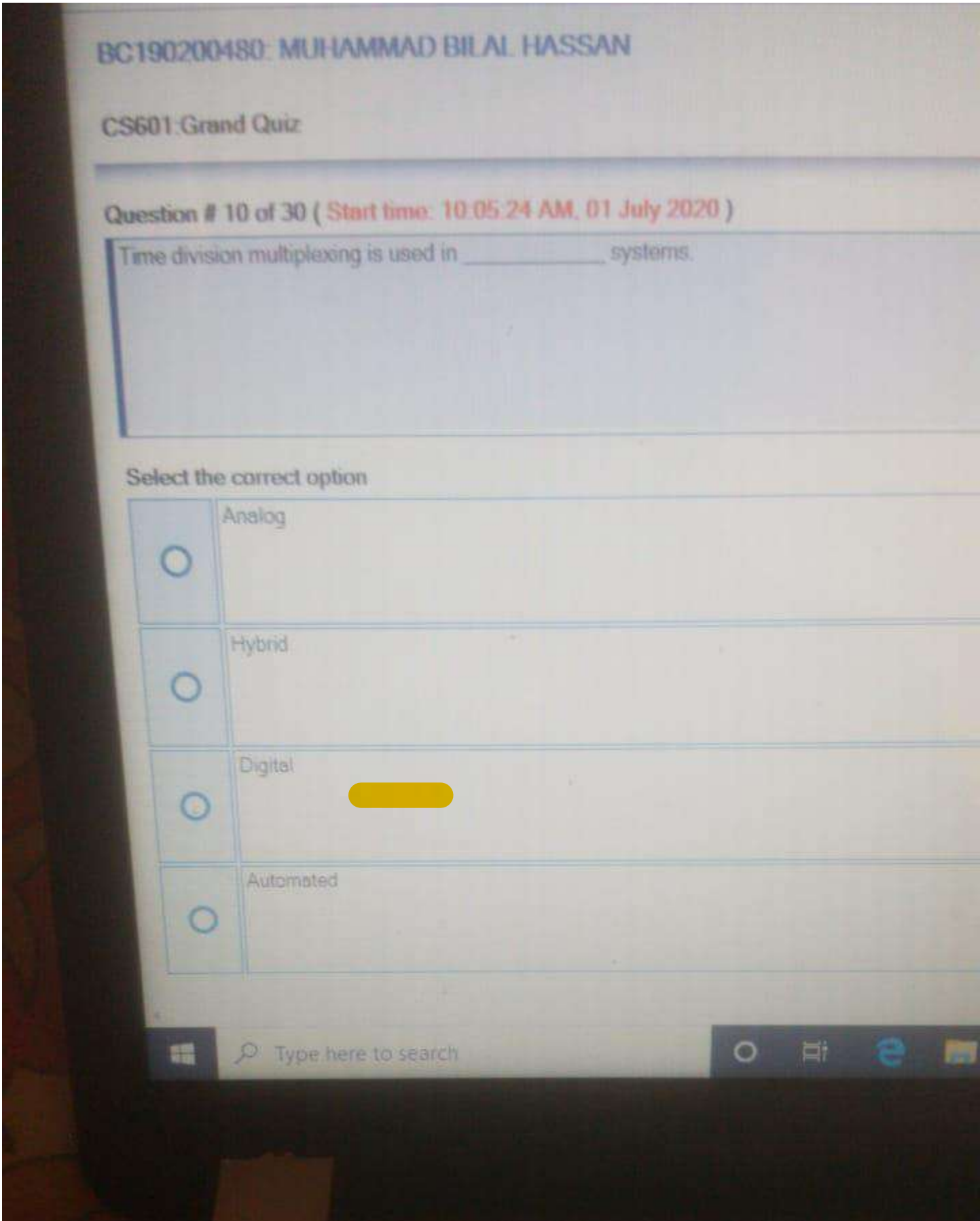

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BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 15 of 30 (Start time: 10:12:27 AM, 01 July 2020)
Routing is the function of _____ layer.
Select the correct option
Network
Physical
Transport
Datalink
Type here to search

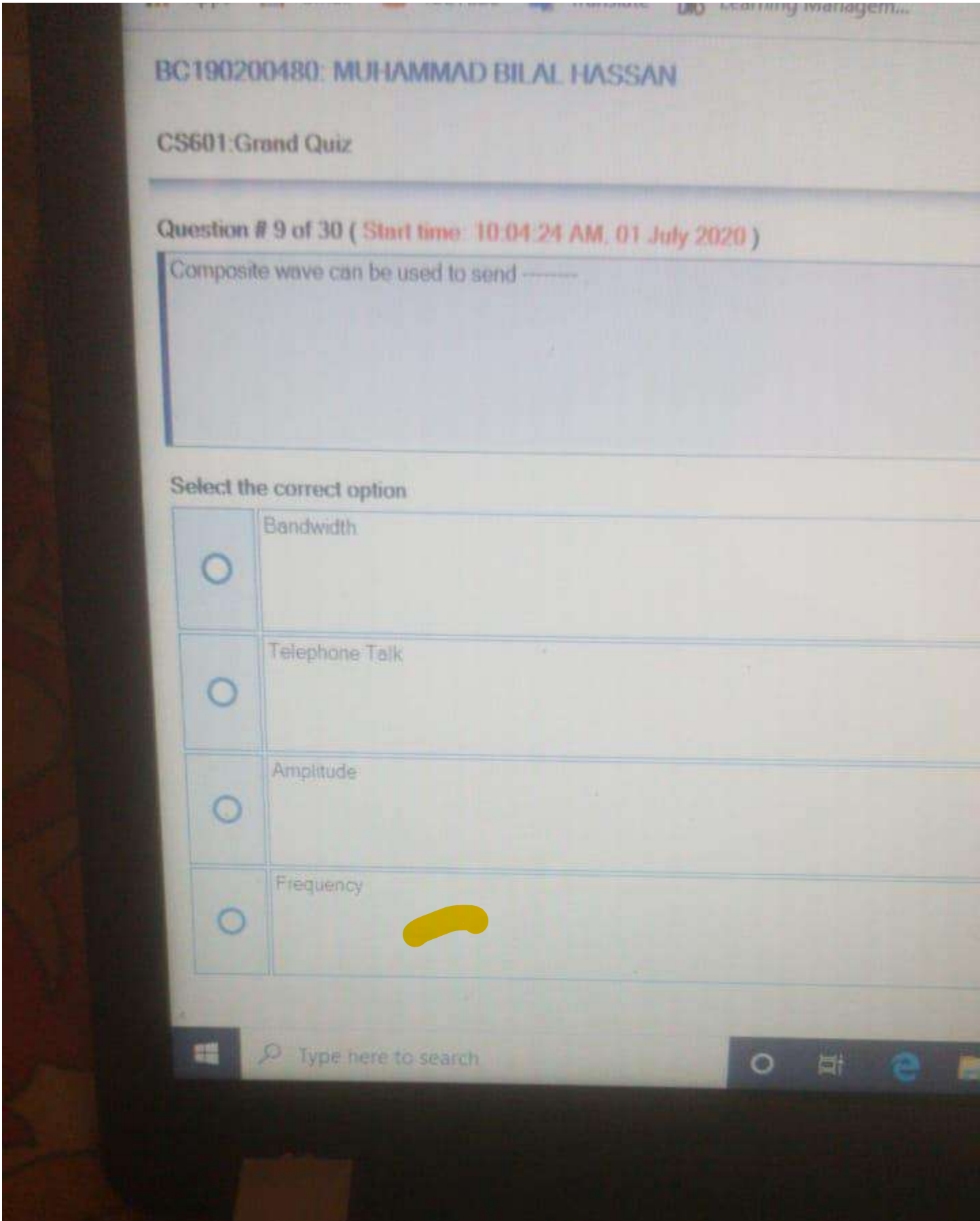

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BC190200480: MUHAMMAD BILAL HASSAN
CS601 Grand Quiz
Question # 14 of 30 (Start time: 10:10:46 AM, 01 July 2020)
Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user.
Select the correct option
PDM
CSMA
TDM
FDM
Type here to search

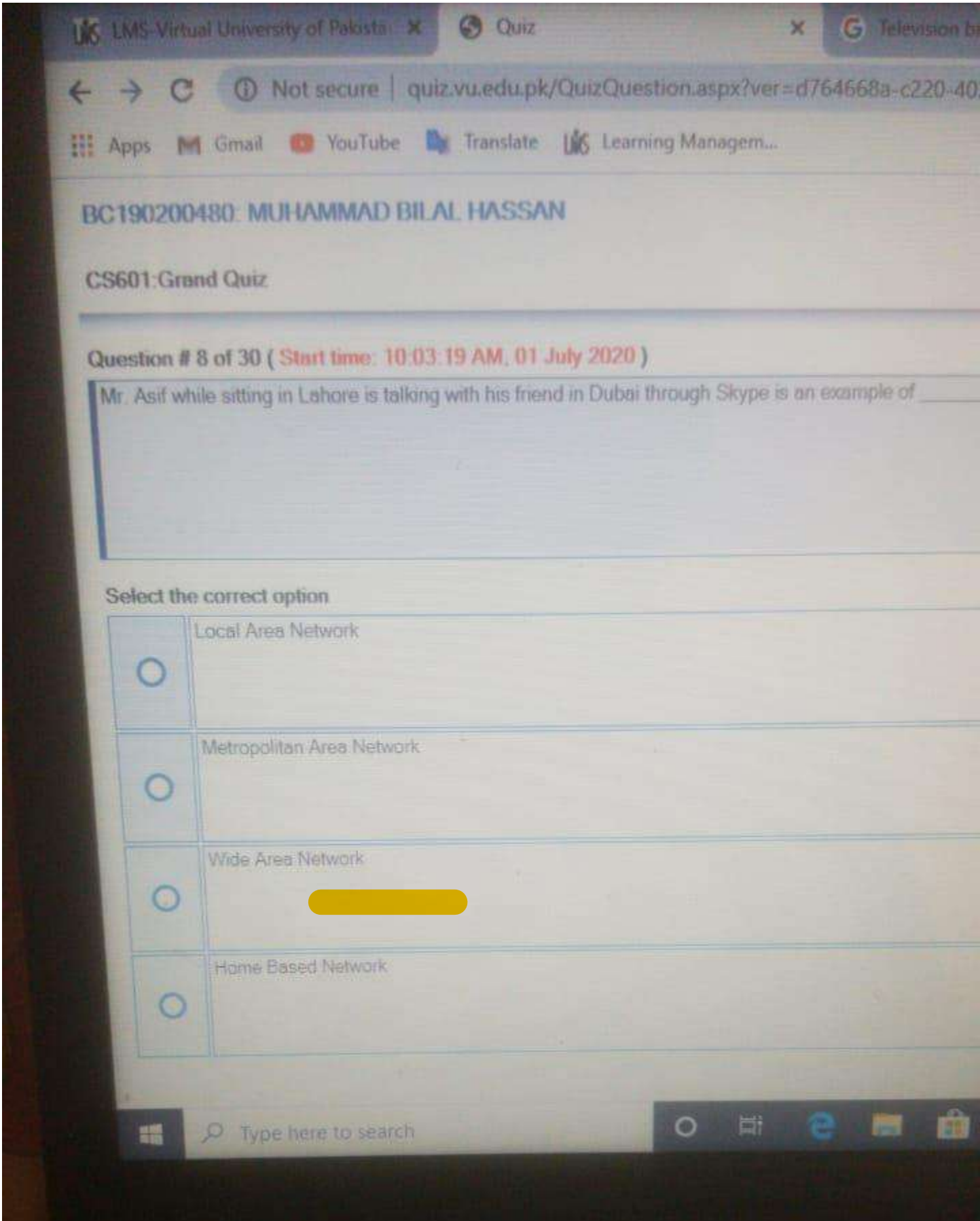

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BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 13 of 30 (Start time: 10:09:42 AM, 01 July 2020)
_____are used for multicast communications, such as radio and television.
Select the correct option
Microwaves
Radio waves
Light wave
Infrared waves
Type here to search

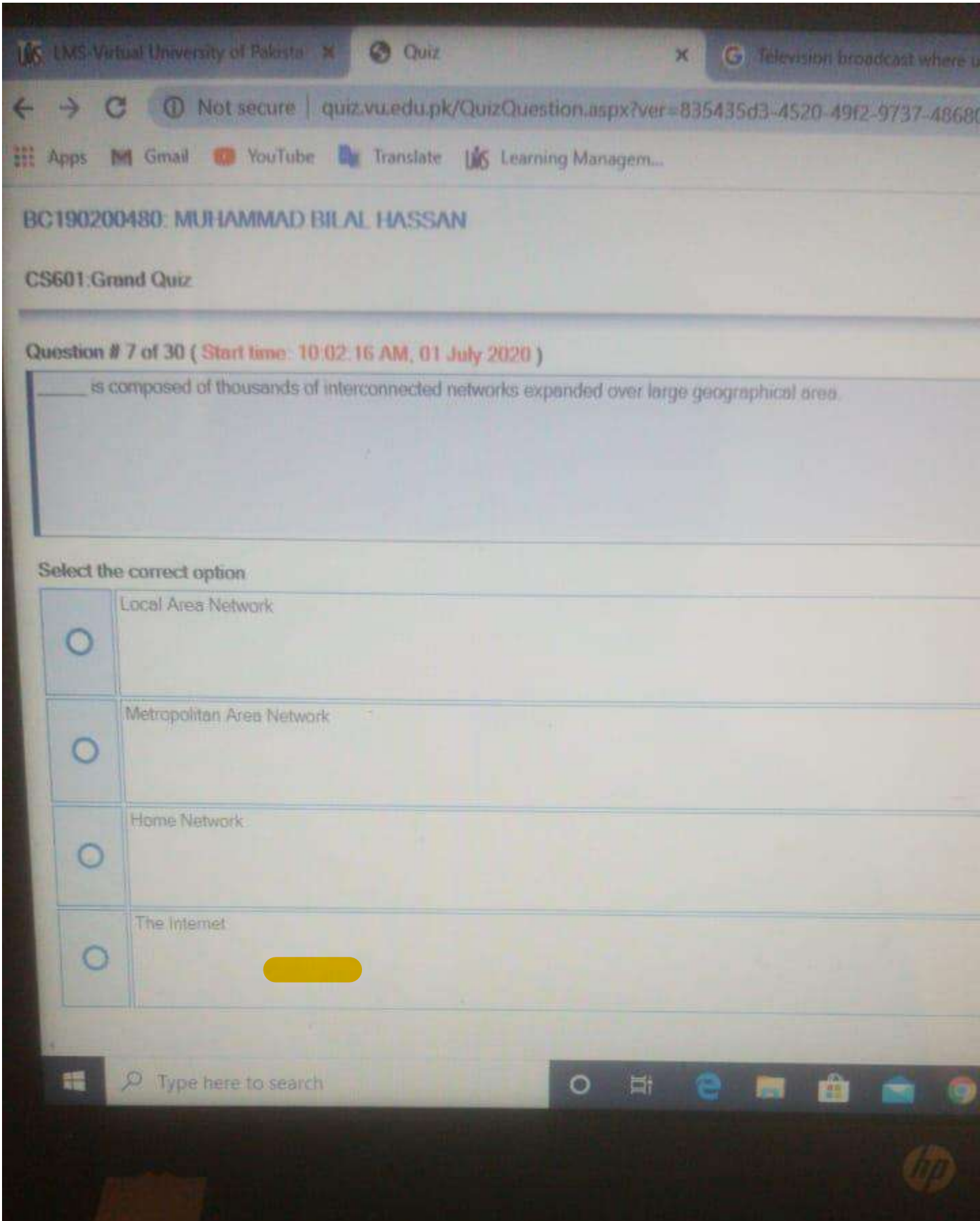

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 12 of 30 (Start time: 10:08:22 AM, 01 July 2020)
Wireless transmission can be divided into _____ broad groups.
Select the correct option
Two
Three
Four
Five
Type here to search


CS601:Grand Quiz
Question # 11 of 30 (Start time: 10:06:47 AM, 01 July 2020)
In baseband transmission, a digital signal is transmitted as _____
Select the correct option
Analog signal
Digital signal
Modulated signal
Multiplexed signal
Type here to search

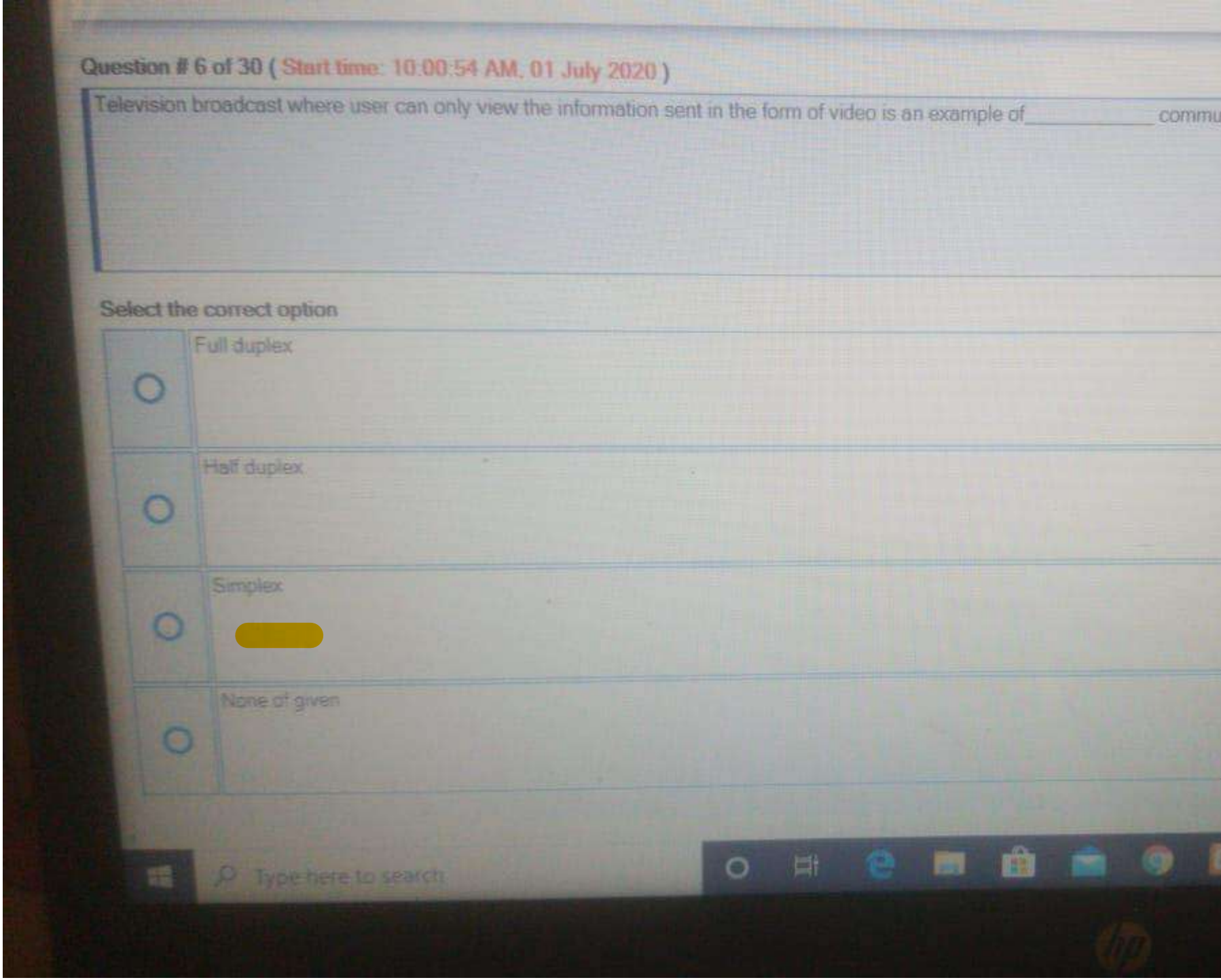

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 10 of 30 (Start time: 10:05:24 AM, 01 July 2020)
Time division multiplexing is used in _____ systems.
Select the correct option
Analog
Hybrid
Digital
Automated
Type here to search

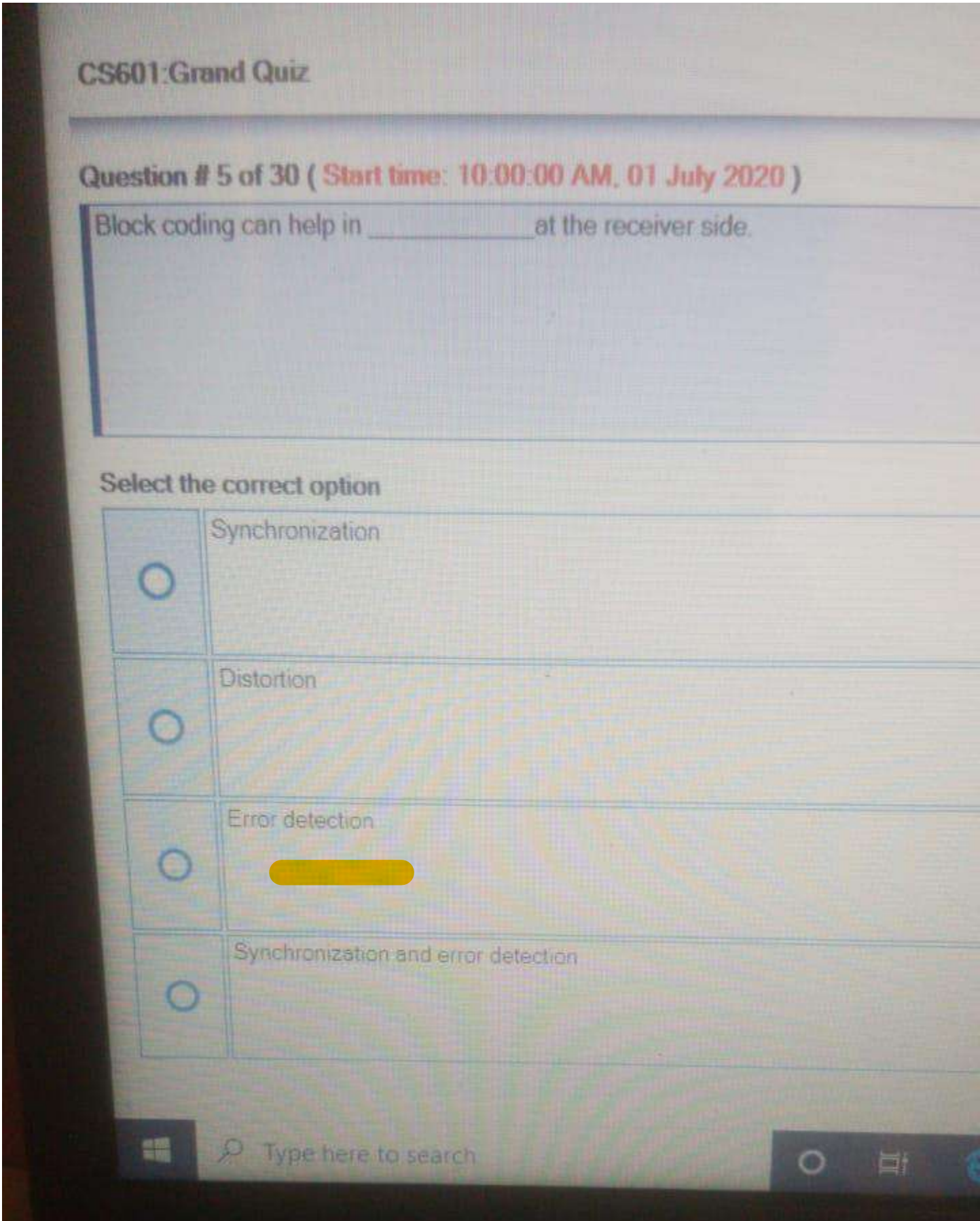

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 9 of 30 (Start time: 10:04:24 AM, 01 July 2020)
Composite wave can be used to send -------
Select the correct option
Bandwidth
Telephone Talk
Amplitude
Frequency
Type here to search

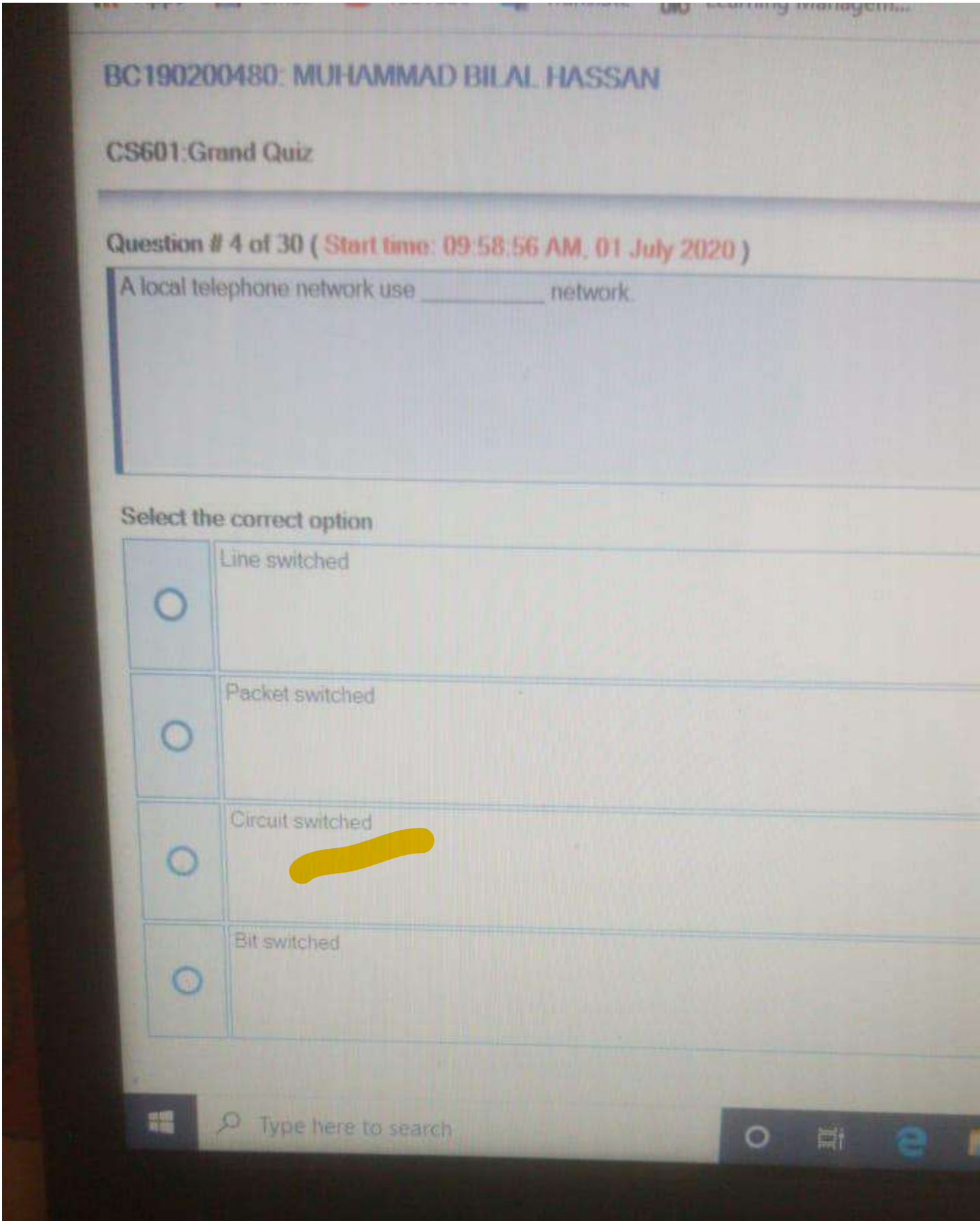

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BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 8 of 30 (Start time: 10:03:19 AM, 01 July 2020)
Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of
Select the correct option
Local Area Network
Metropolitan Area Network
Wide Area Network
Home Based Network
Type here to search

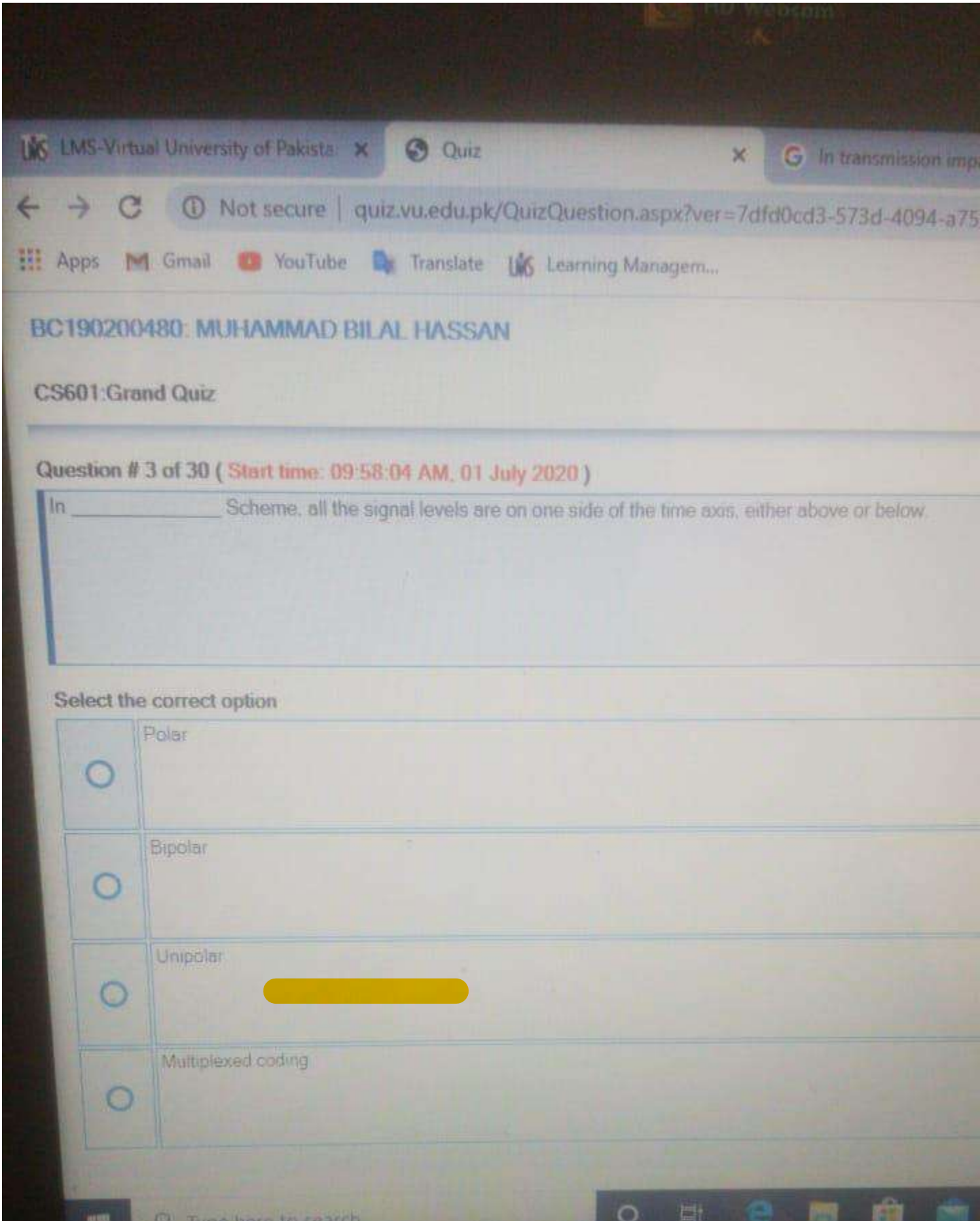

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BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 7 of 30 (Start time: 10:02:16 AM, 01 July 2020)
_____ is composed of thousands of interconnected networks expanded over large geographical area
Select the correct option
Local Area Network
Metropolitan Area Network
Home Network
The Internet
Type here to search

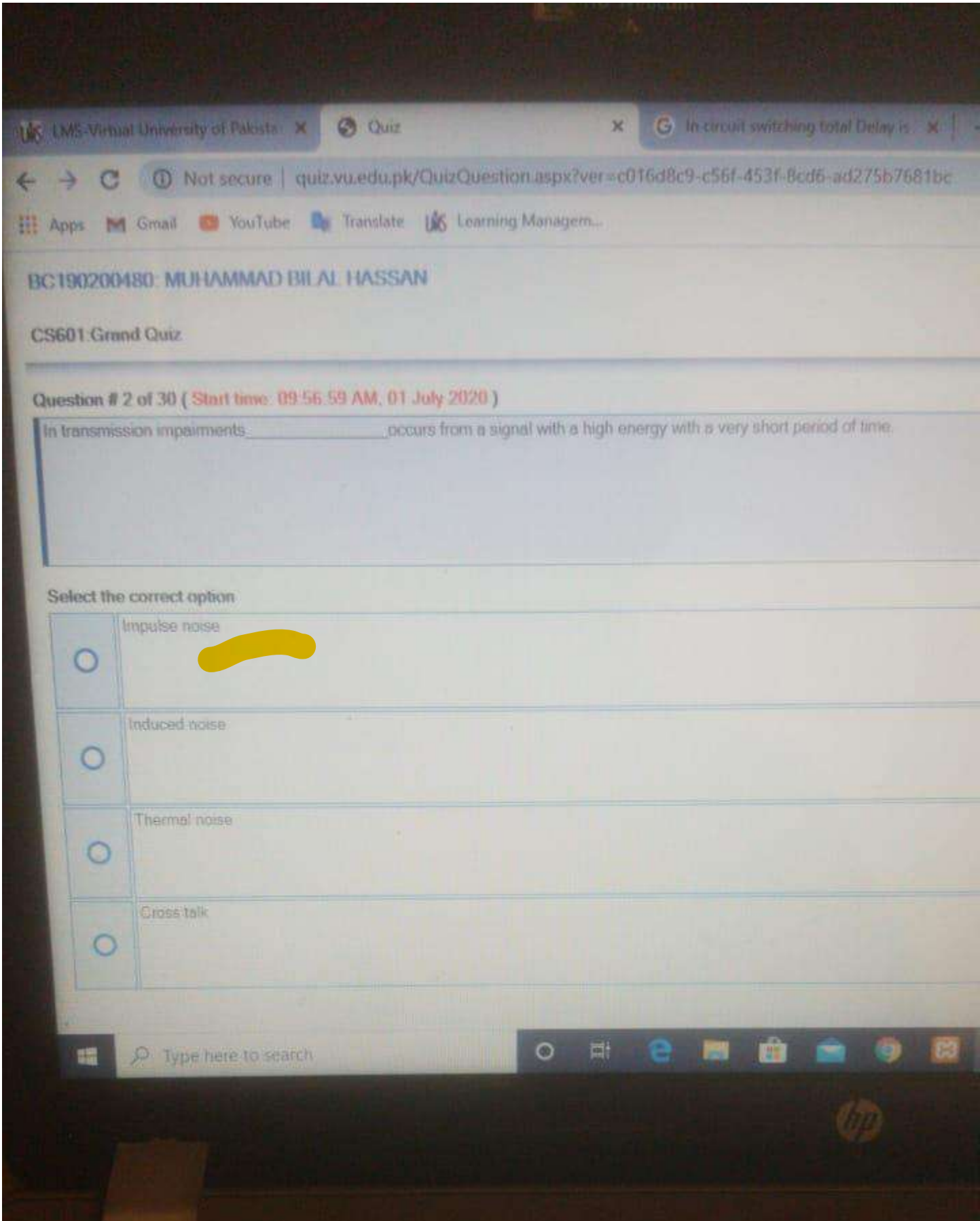
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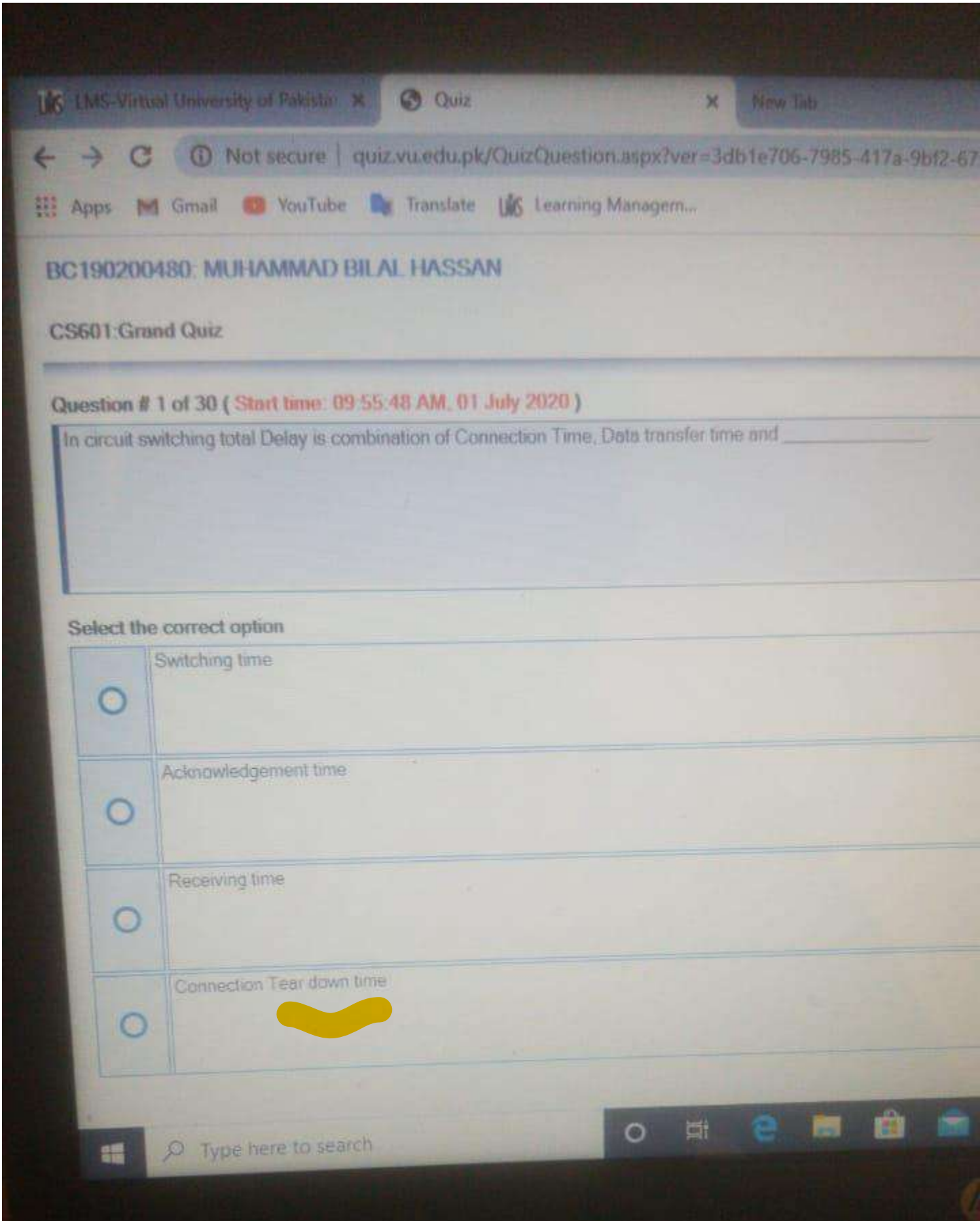


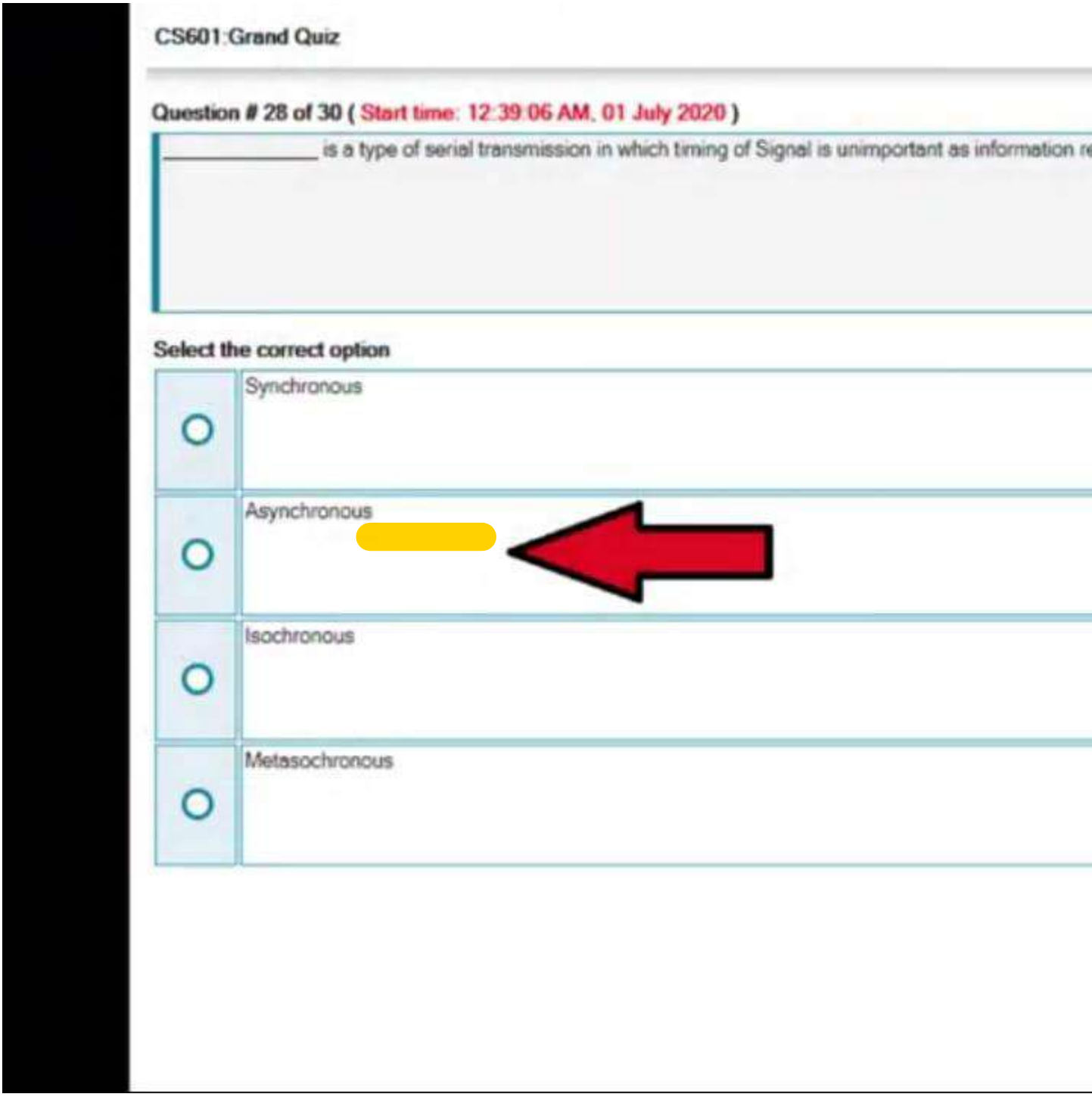

CS601:Grand Quiz
Question # 5 of 30 (Start time: 10:00:00 AM, 01 July 2020)
Block coding can help in _____at the receiver side.
Select the correct option
Synchronization
Distortion
Error detection
Synchronization and error detection
Type here to search

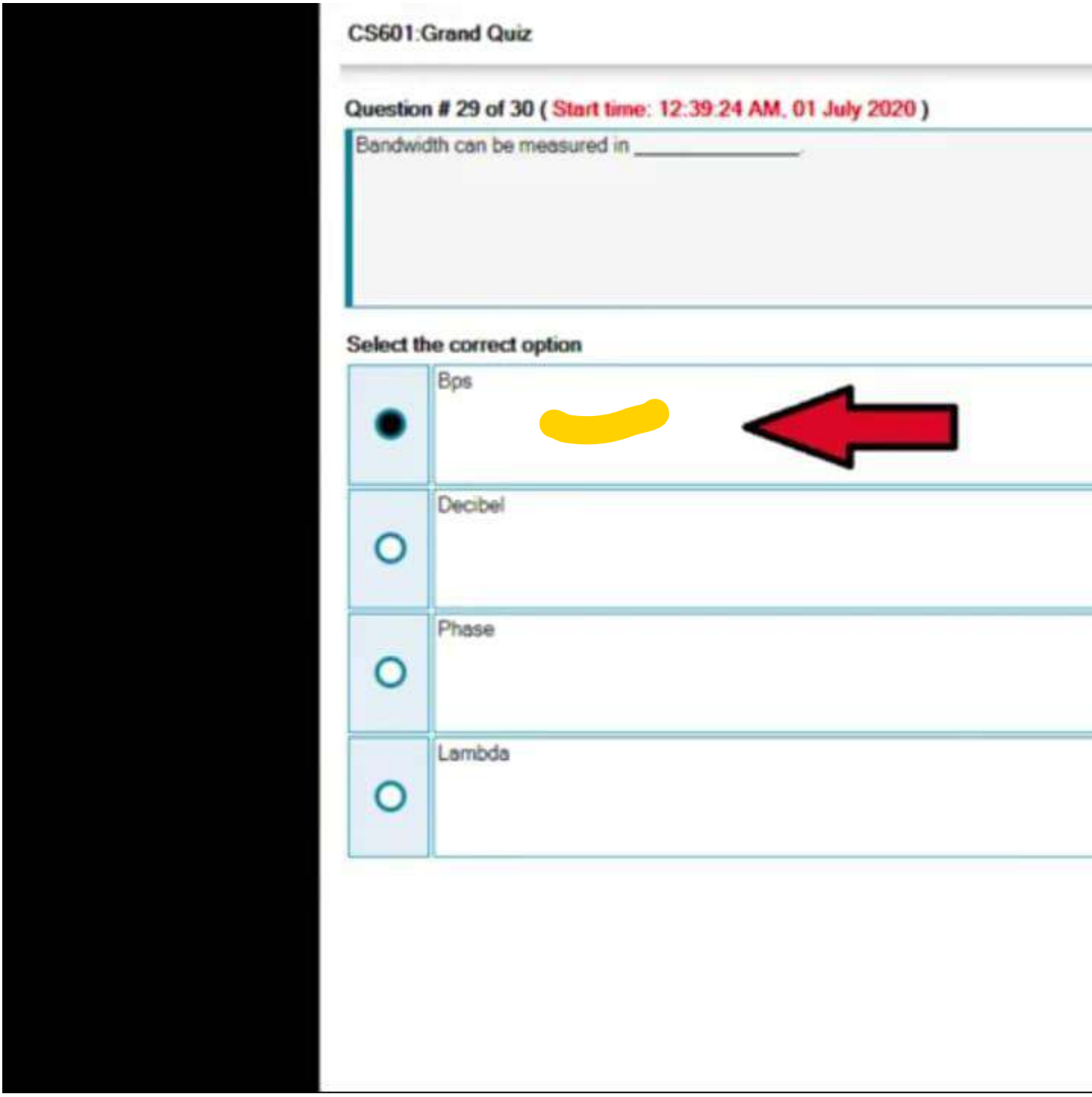

BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 4 of 30 (Start time: 09:58:56 AM, 01 July 2020)
A local telephone network use _____ network.
Select the correct option
Line switched
Packet switched
Circuit switched
Bit switched
Type here to search


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BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 3 of 30 (Start time: 09:58:04 AM, 01 July 2020)
In _____ Scheme, all the signal levels are on one side of the time axis, either above or below.
Select the correct option
Polar
Bipolar
Unipolar
Multiplexed coding


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In circuit switching total Delay is
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CS601 Grand Quiz
Question # 2 of 30 (Start time: 09:56:59 AM, 01 July 2020)
In transmission impairments_____occurs from a signal with a high energy with a very short period of time.
Select the correct option
Impulse noise
Induced noise
Thermal noise
Cross talk
Type here to search


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BC190200480: MUHAMMAD BILAL HASSAN
CS601:Grand Quiz
Question # 1 of 30 (Start time: 09:55:48 AM, 01 July 2020)
In circuit switching total Delay is combination of Connection Time, Data transfer time and _____
Select the correct option
Switching time
Acknowledgement time
Receiving time
Connection Tear down time
Type here to search


CS601:Grand Quiz
Question # 28 of 30 (Start time: 12:39:06 AM, 01 July 2020)
_____ is a type of serial transmission in which timing of Signal is unimportant as information re
Select the correct option
Synchronous
Asynchronous
Isochronous
Metasochronous


CS601:Grand Quiz
Question # 29 of 30 (Start time: 12:39:24 AM, 01 July 2020)
Bandwidth can be measured in _____.
Select the correct option
Bps
Decibel
Phase
Lambda

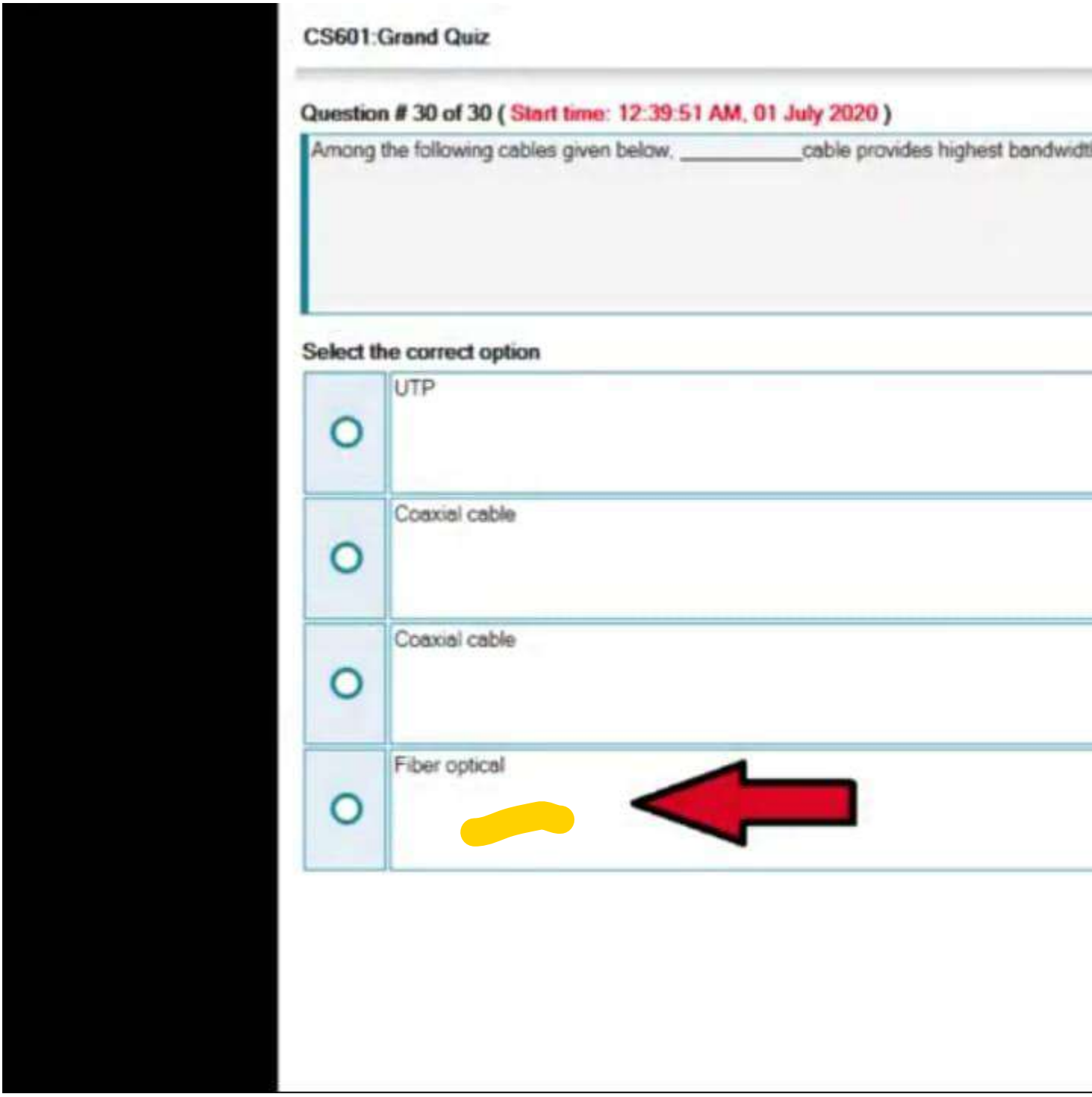
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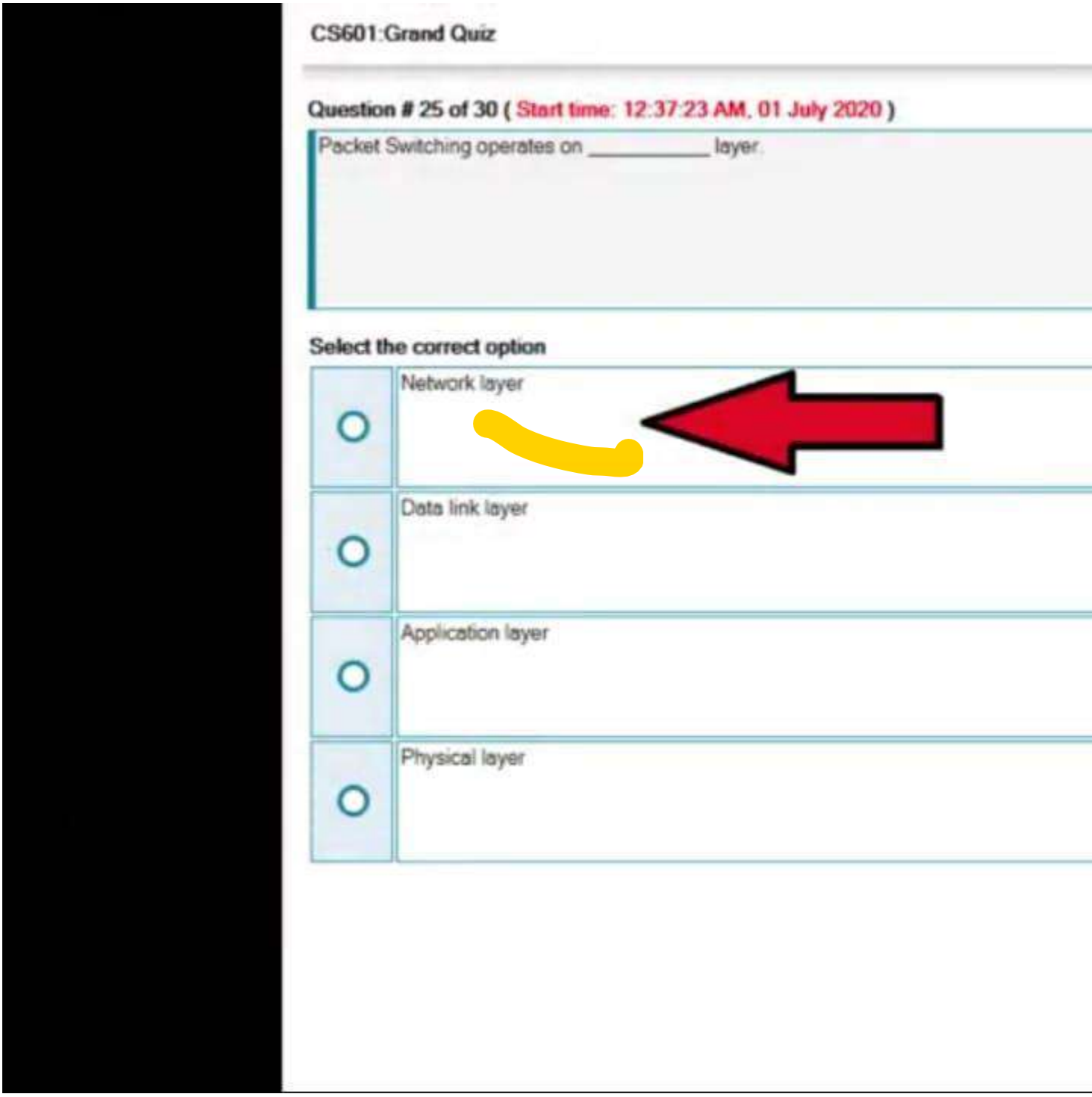
Question # 26 of 30 (Start time: 12:38:07 AM, 01 July 2020)

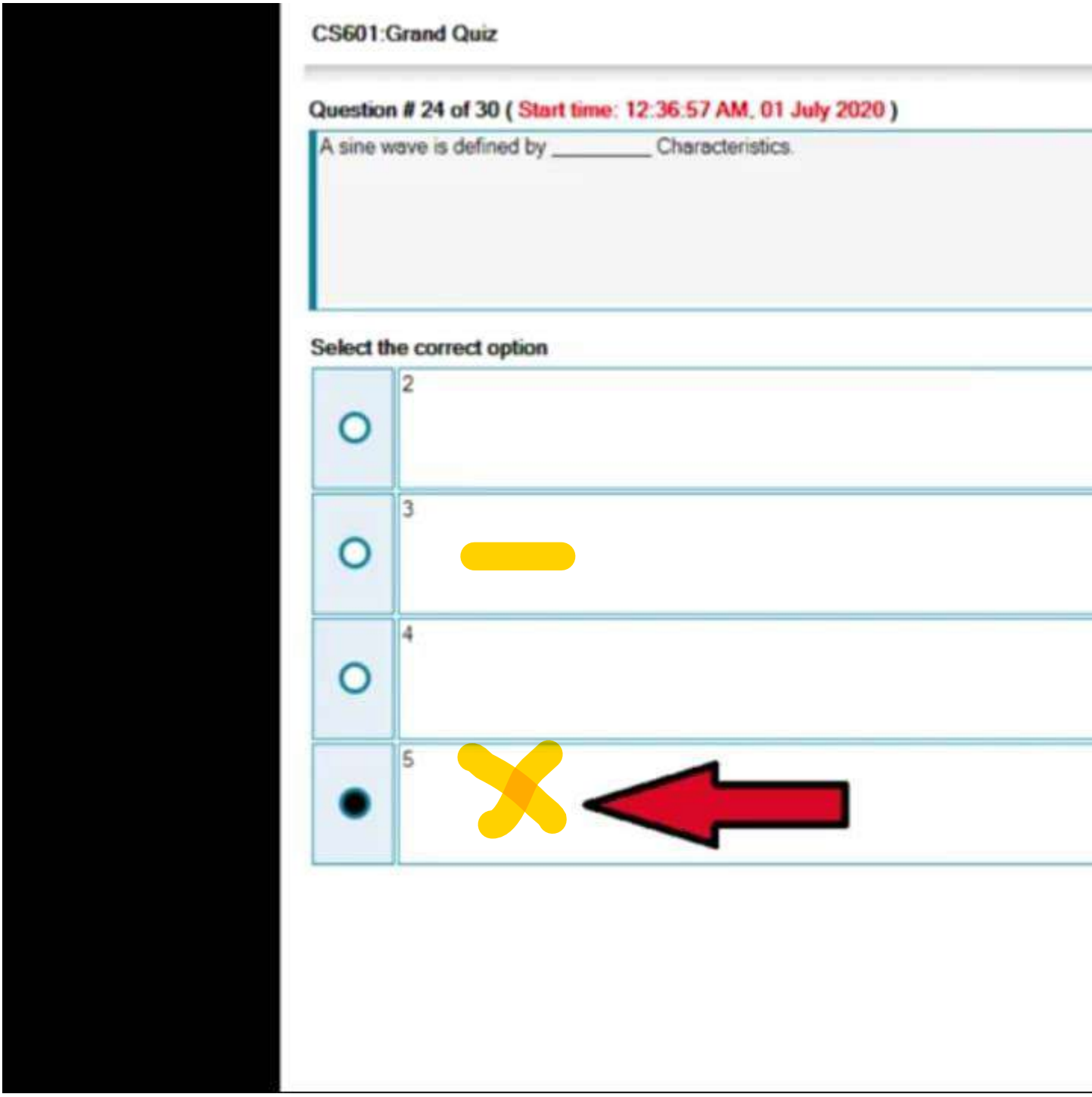
_____ mode of serial transmission guarantees fixed rate data

Select the correct option

- Synchronous
- Asynchronous
- Isochronous
- Metasochronous


CS601:Grand Quiz
Question # 30 of 30 (Start time: 12:39:51 AM, 01 July 2020)
Among the following cables given below, _____cable provides highest bandwidt
Select the correct option
UTP
Coaxial cable
Coaxial cable
Fiber optical


CS601:Grand Quiz
Question # 25 of 30 (Start time: 12:37:23 AM, 01 July 2020)
Packet Switching operates on _____ layer.
Select the correct option
Network layer
Data link layer
Application layer
Physical layer


CS601:Grand Quiz
Question # 24 of 30 (Start time: 12:36:57 AM, 01 July 2020)
A sine wave is defined by _____ Characteristics.
Select the correct option
2
3
4
5

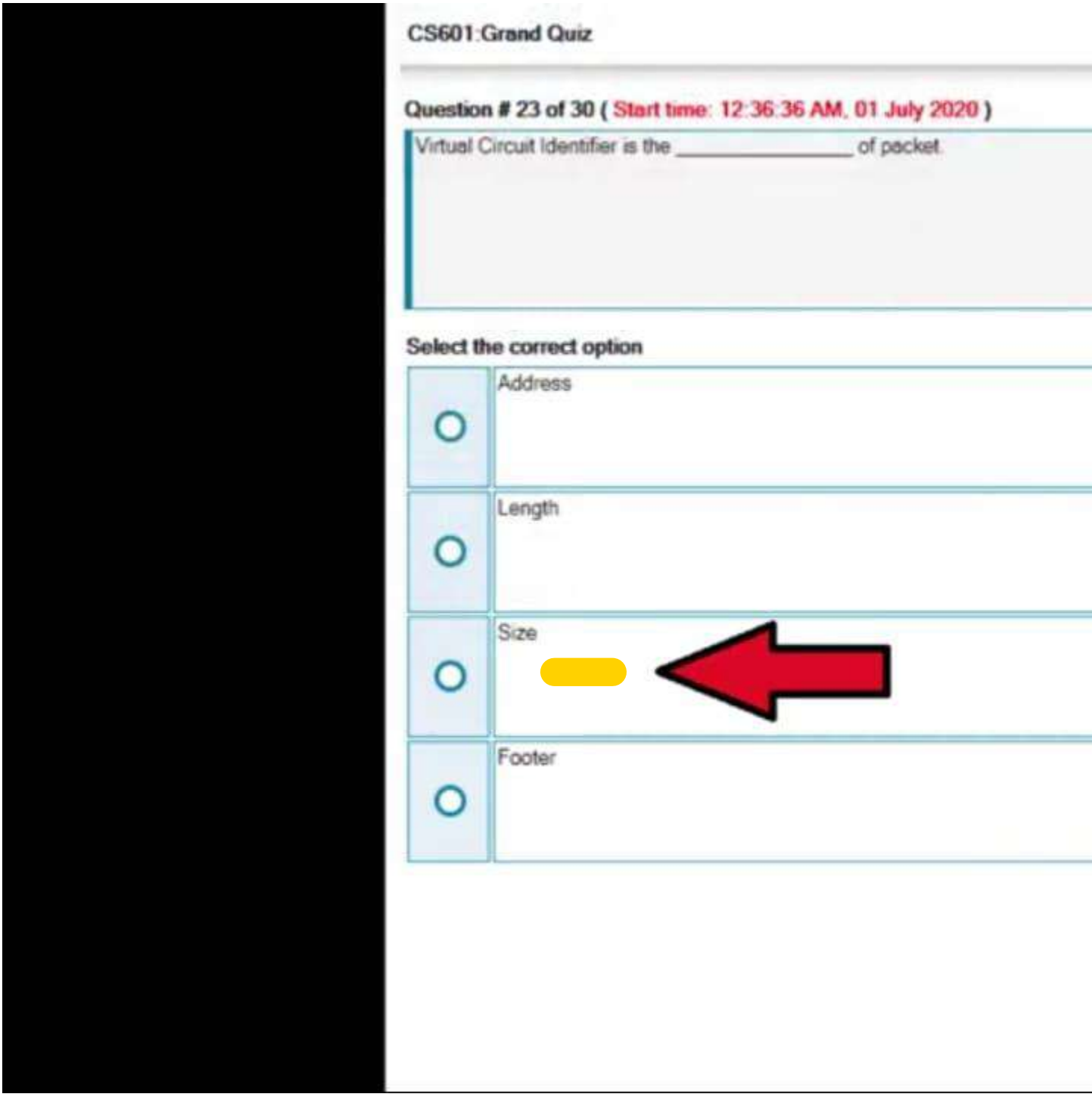
CS601:Grand Quiz

Question # 22 of 30 (Start time: 12:35:56 AM, 01 July 2020)

In _____ scheme the voltages are on both sides of the time axis and voltage level for 0 can

Select the correct option

- Uni-level
- Polar
- Uni-polar
- Bipolar


CS601:Grand Quiz
Question # 23 of 30 (Start time: 12:36:36 AM, 01 July 2020)
Virtual Circuit Identifier is the _____ of packet
Select the correct option
Address
Length
Size
Footer

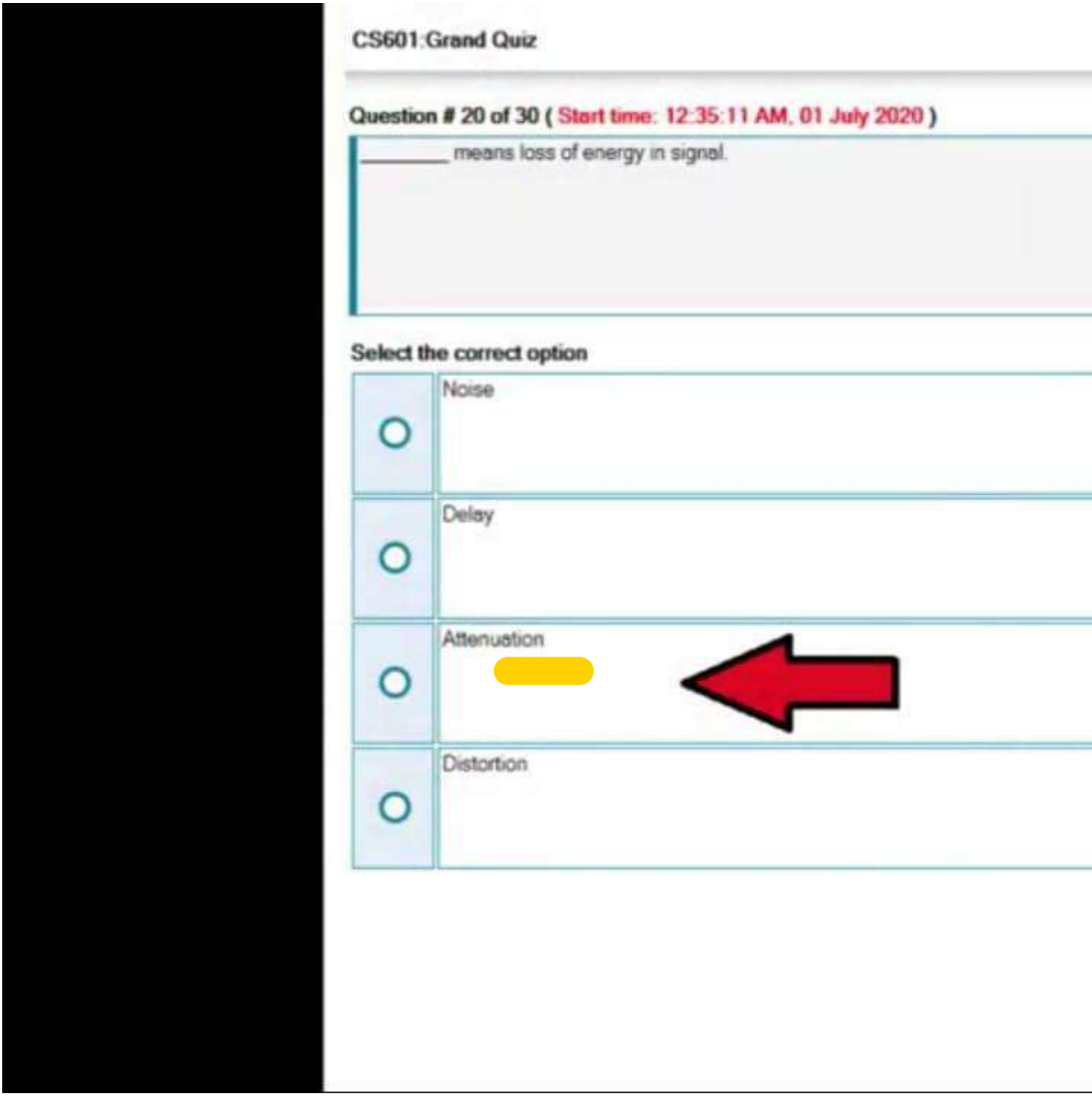
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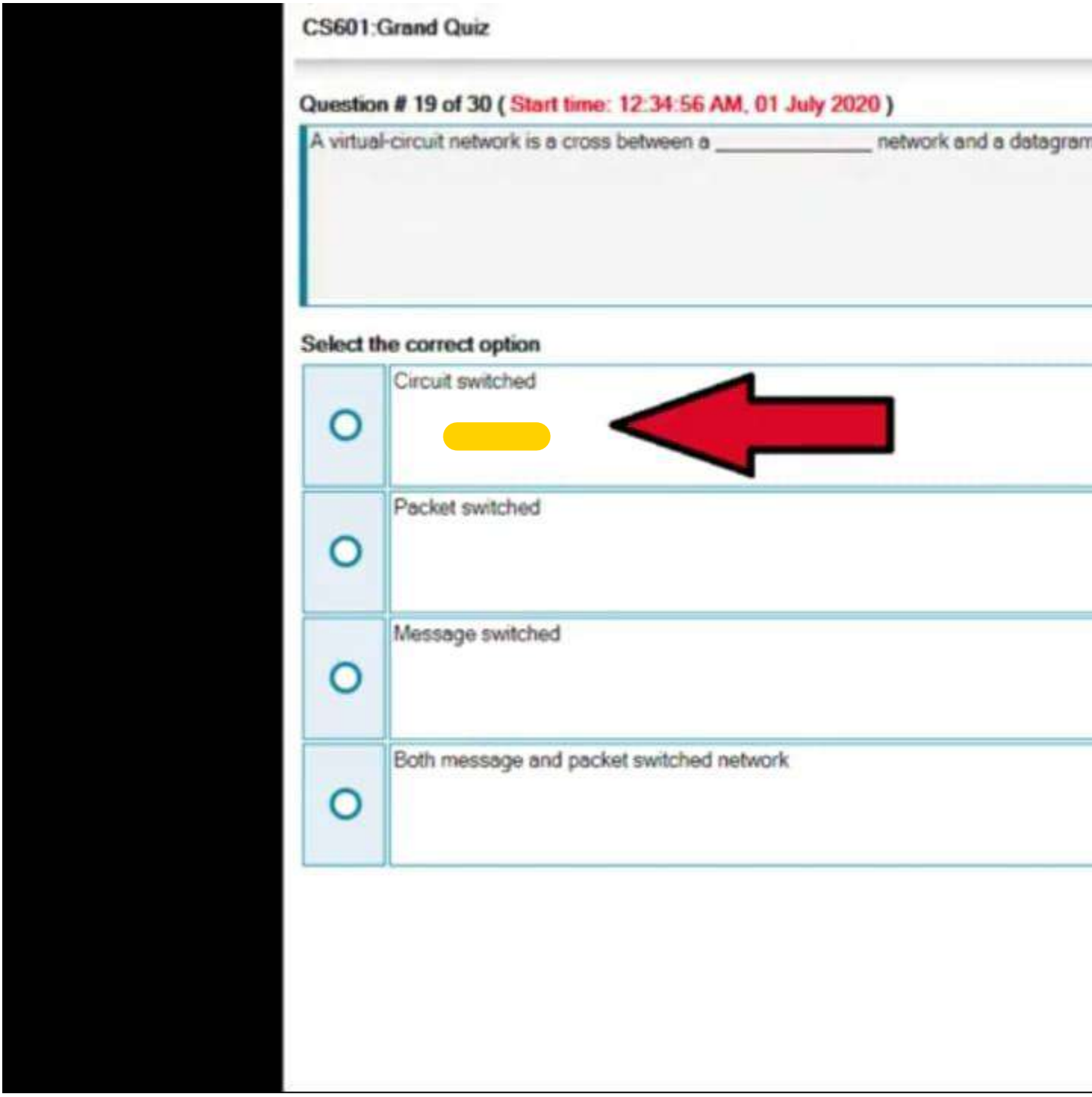
Question # 21 of 30 (Start time: 12:35:36 AM, 01 July 2020)

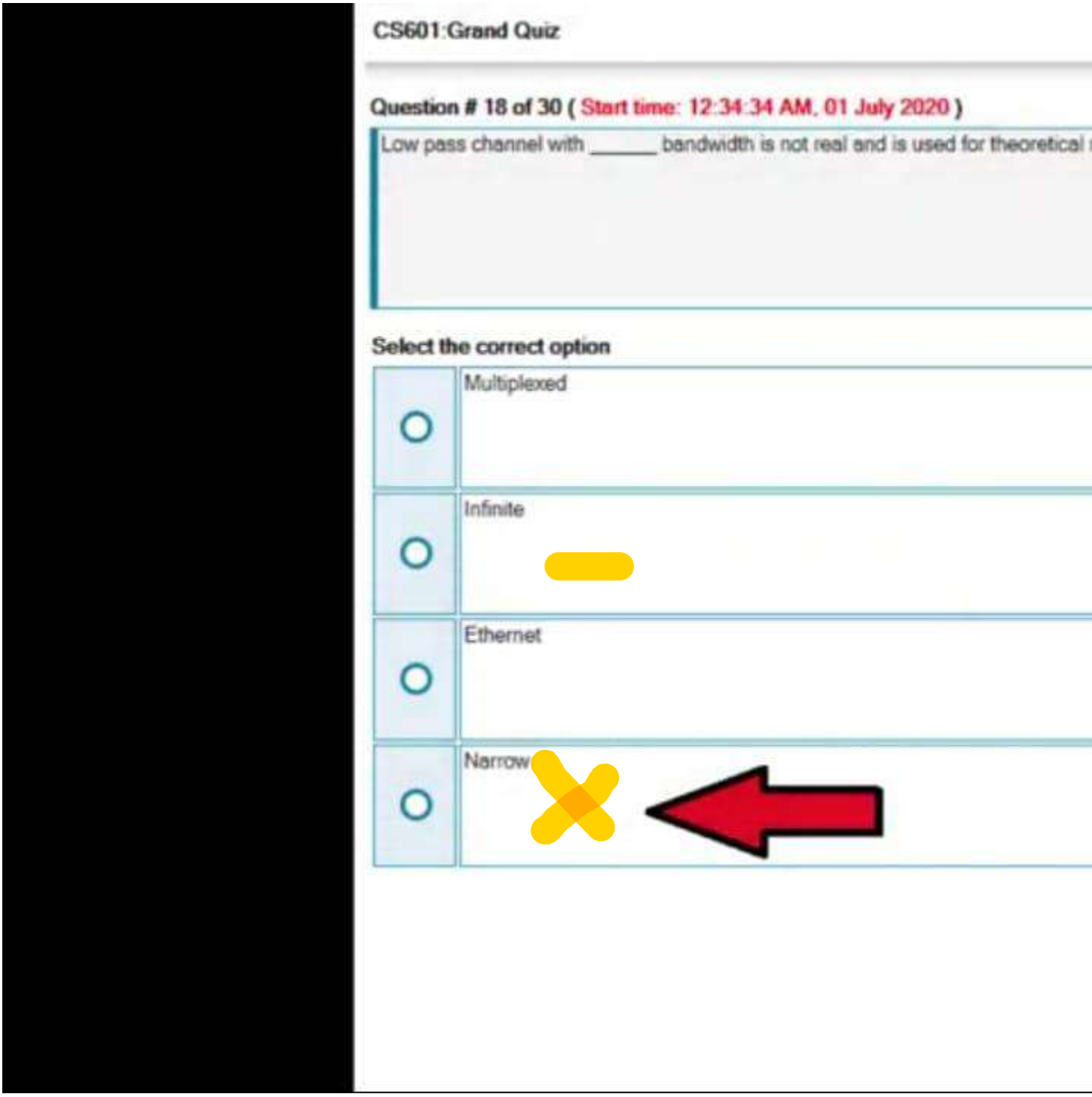
WDM stands for _____.

Select the correct option

- Wideband De-Modulation
- Worst Data Manipulation
- Wavelength Division Multiplexing
- None of the choices is correct


CS601:Grand Quiz
Question # 20 of 30 (Start time: 12:35:11 AM, 01 July 2020)
_____ means loss of energy in signal.
Select the correct option
Noise
Delay
Attenuation
Distortion


CS601:Grand Quiz
Question # 19 of 30 (Start time: 12:34:56 AM, 01 July 2020)
A virtual-circuit network is a cross between a _____ network and a datagram
Select the correct option
Circuit switched
Packet switched
Message switched
Both message and packet switched network


CS601:Grand Quiz
Question # 18 of 30 (Start time: 12:34:34 AM, 01 July 2020)
Low pass channel with _____ bandwidth is not real and is used for theoretical
Select the correct option
Multiplexed
Infinite
Ethernet
Narrow

CS601:Grand Quiz

Question # 17 of 30 (Start time: 12:34:02 AM, 01 July 2020)

When data is sent using _____ , multiple data bits are transmitted over multiple ch

Select the correct option

- Serial data transmission
- Parallel data transmission
- Hybrid data transmission
- Both parallel and serial transmission

CS601:Grand Quiz

Question # 16 of 30 (Start time: 12:32:56 AM, 01 July 2020)

To improve the performance of line coding _____coding was introd

Select the correct option

- Block coding
- MLT-3
- 2BIQ
- Double coding

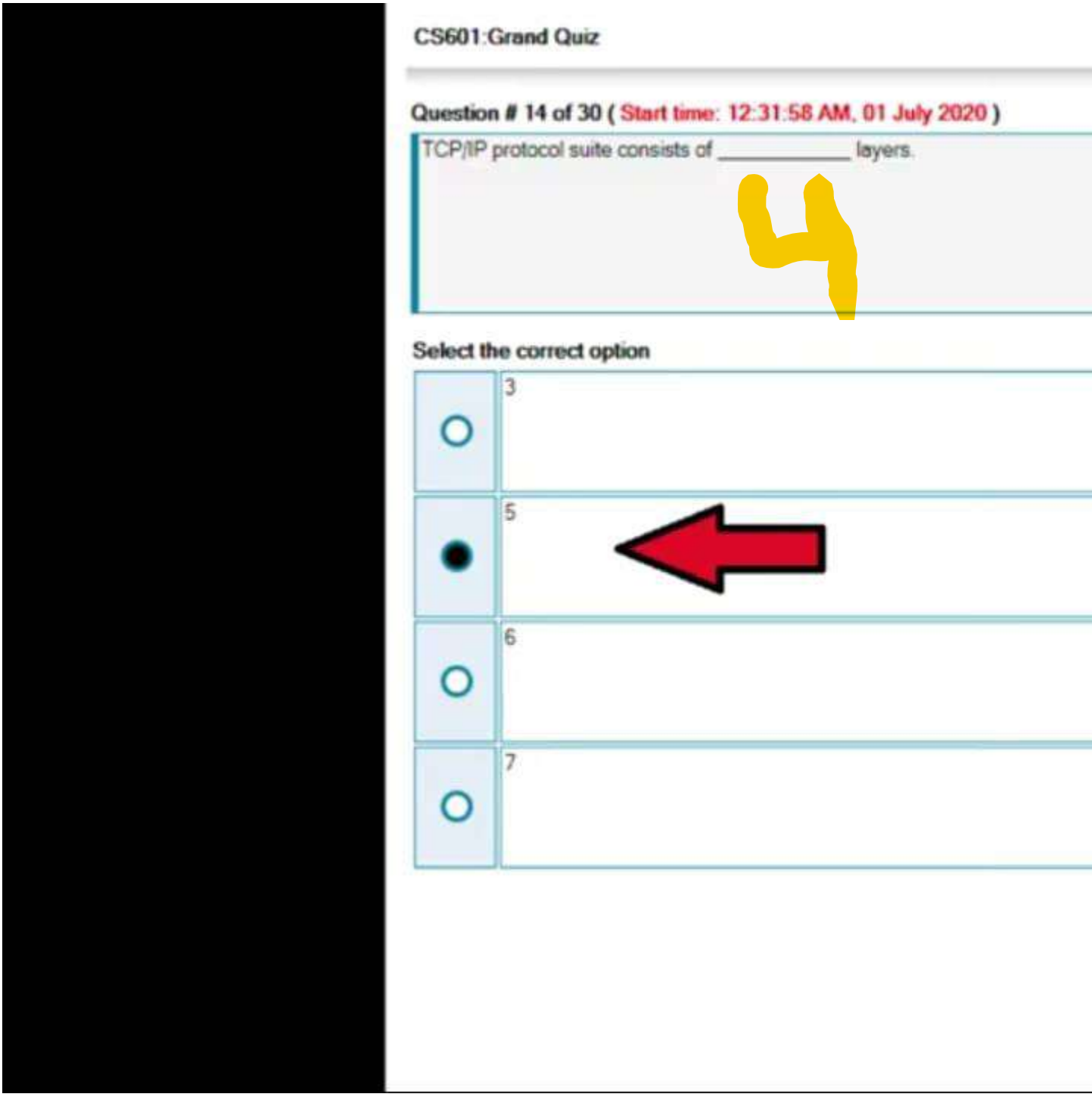
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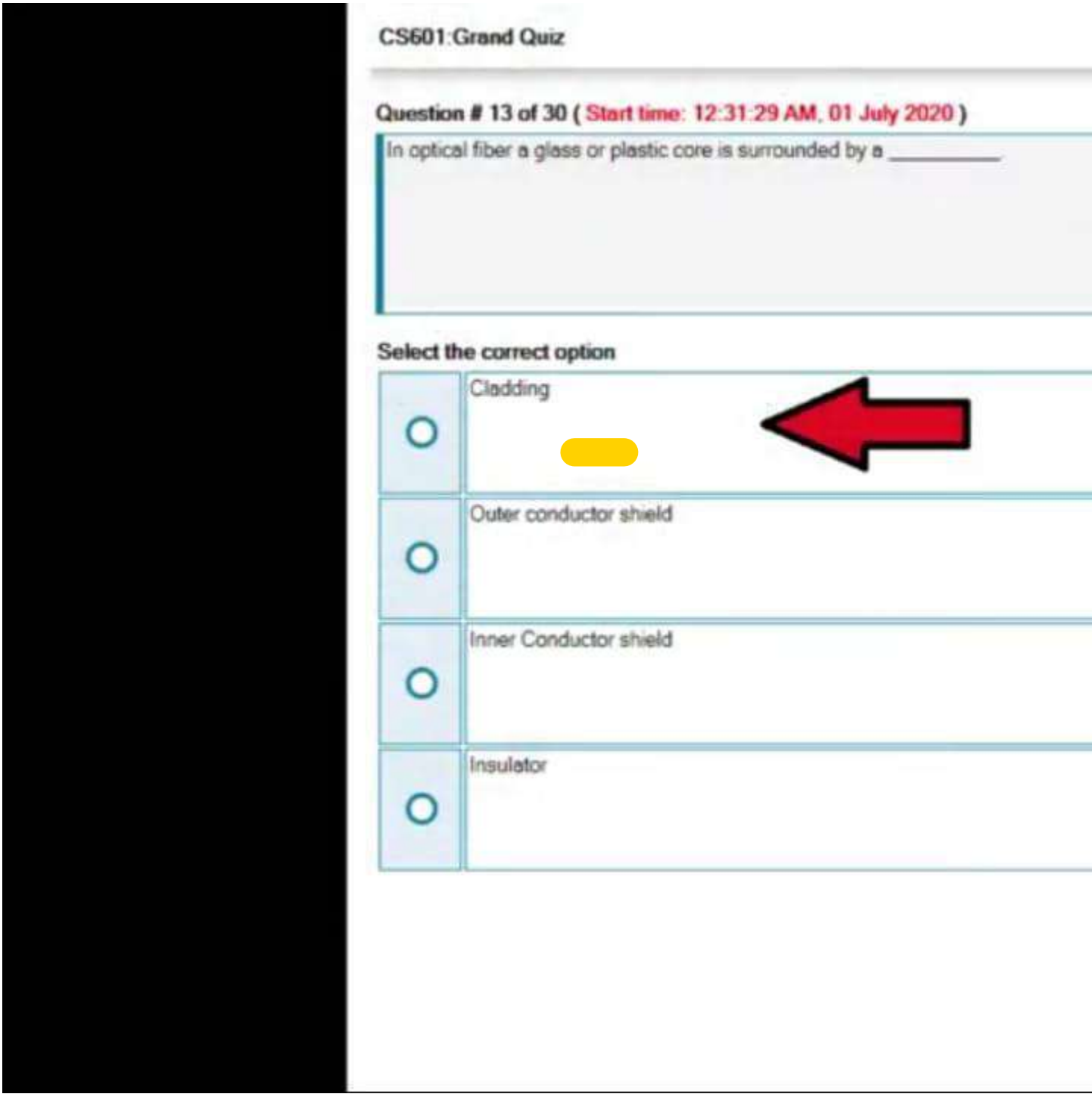
Question # 15 of 30 (Start time: 12:32:36 AM, 01 July 2020)

_____category of coaxial cable is used for thin Ethernet.

Select the correct option

- RG-58
- RG-59
- RG-1
- RG-47


CS601:Grand Quiz
Question # 14 of 30 (Start time: 12:31:58 AM, 01 July 2020)
TCP/IP protocol suite consists of _____ layers.
4
Select the correct option
3
5
6
7



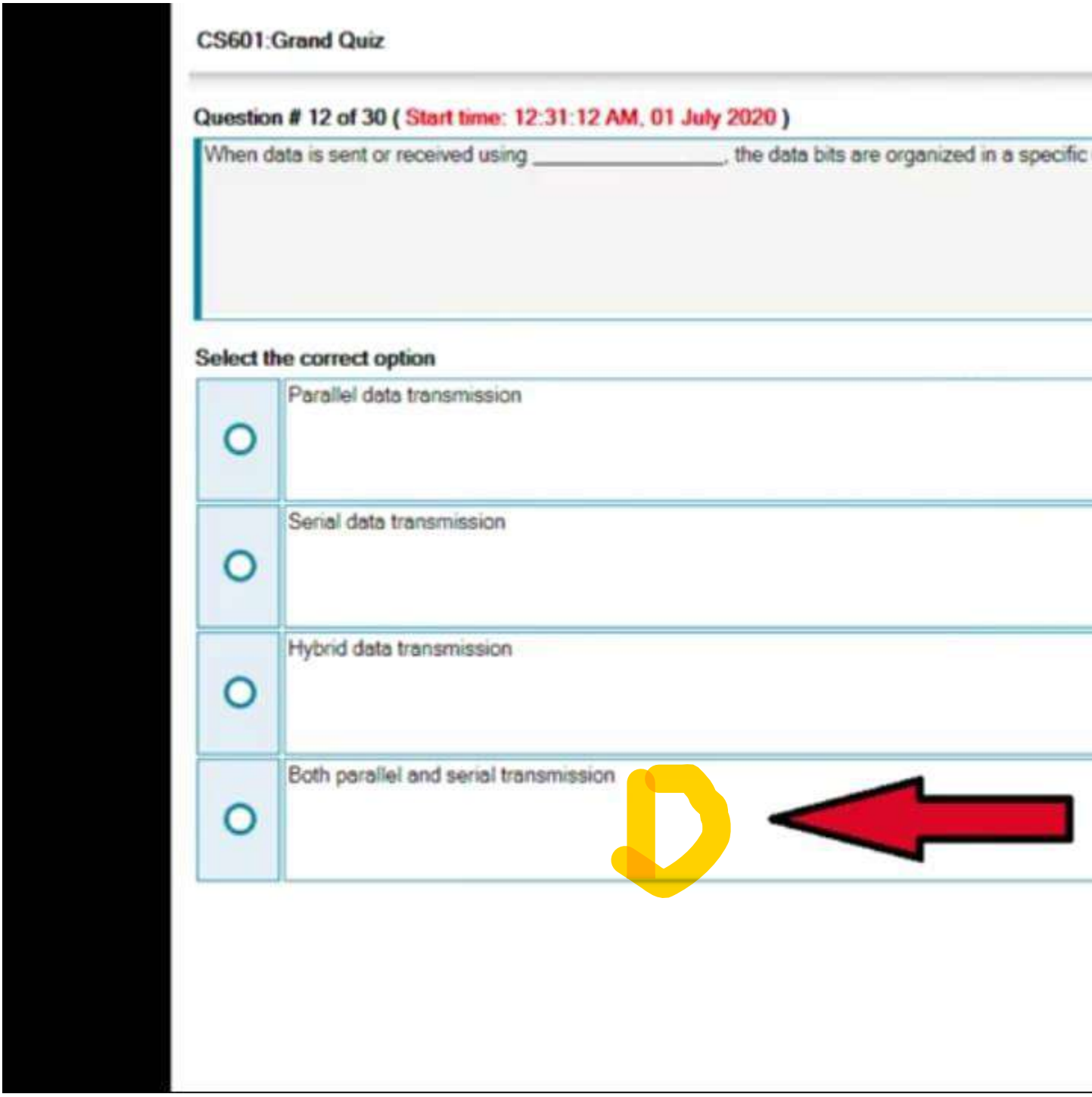
CS601:Grand Quiz

Question # 13 of 30 (Start time: 12:31:29 AM, 01 July 2020)

In optical fiber a glass or plastic core is surrounded by a _____

Select the correct option

- Cladding
- Outer conductor shield
- Inner Conductor shield
- Insulator


CS601:Grand Quiz
Question # 12 of 30 (Start time: 12:31:12 AM, 01 July 2020)
When data is sent or received using _____, the data bits are organized in a specific
Select the correct option
Parallel data transmission
Serial data transmission
Hybrid data transmission
Both parallel and serial transmission

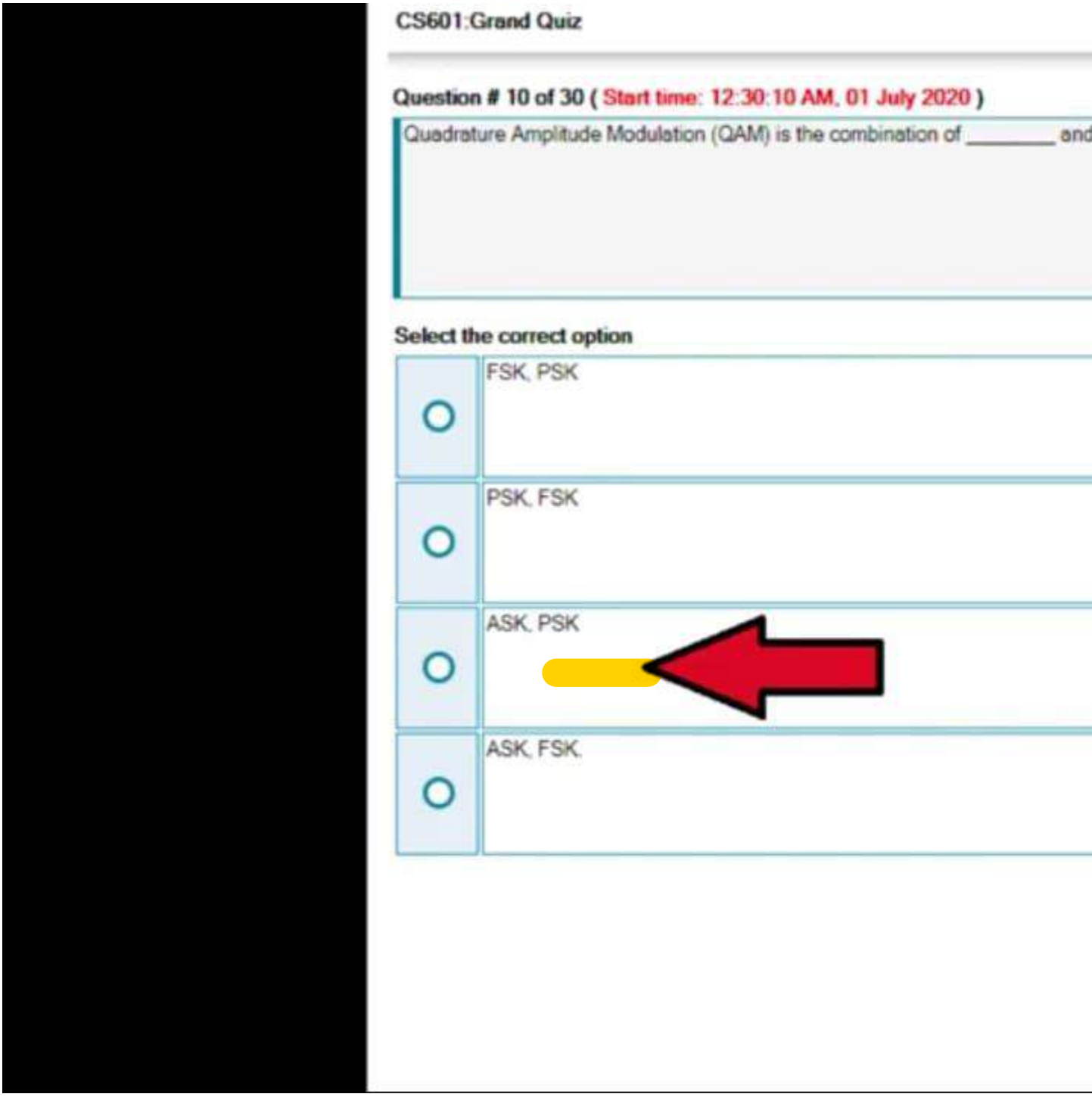
CS601:Grand Quiz

Question # 11 of 30 (Start time: 12:30:53 AM, 01 July 2020)

In NRZ-I the signal is inverted if _____ is encountered.

Select the correct option

- 0
- 1
- 00
- 11


CS601:Grand Quiz
Question # 10 of 30 (Start time: 12:30:10 AM, 01 July 2020)
Quadrature Amplitude Modulation (QAM) is the combination of _____ and
Select the correct option
FSK, PSK
PSK, FSK
ASK, PSK
ASK, FSK

CS601:Grand Quiz

Question # 9 of 30 (Start time: 12:29:48 AM, 01 July 2020)

In transmission impairments _____noise occurs from other sources like

Select the correct option

- Impulse
- Induced
- Cross talk
- Thermal

CS601:Grand Quiz

Question # 8 of 30 (Start time: 12:29:31 AM, 01 July 2020)

Which one of the following is not a sampling technique?

Select the correct option

- Flat Top Sampling
- Neutral Sampling
- Natural Sampling
- Ideal Sampling

CS601:Grand Quiz

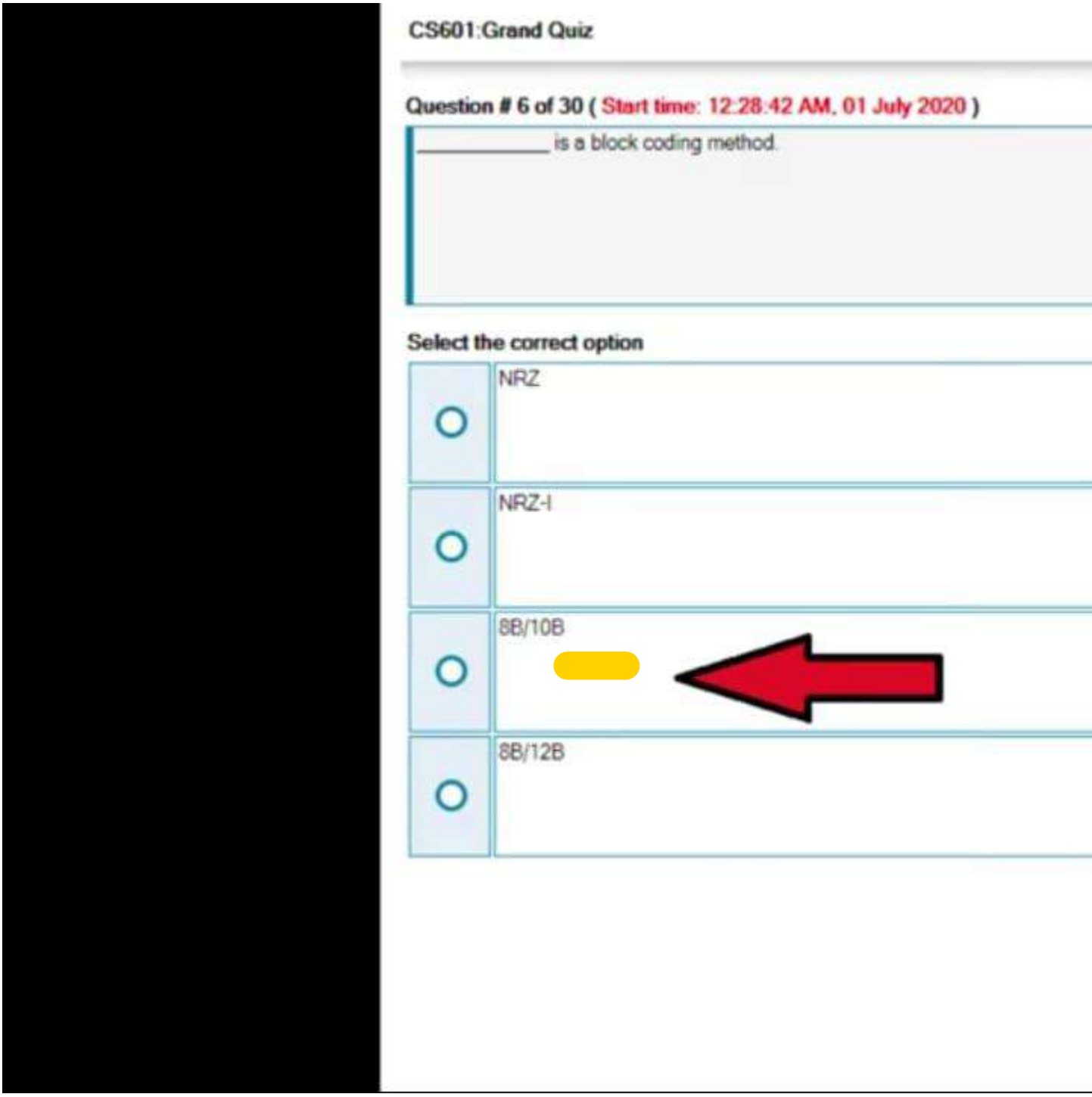
Question # 7 of 30 (Start time: 12:29:11 AM, 01 July 2020)

Simple sine wave can be used to send -------

Select the correct option

- Bandwidth
- Time value
- Power signal
- Amplitude




CS601:Grand Quiz
Question # 6 of 30 (Start time: 12:28:42 AM, 01 July 2020)
_____ is a block coding method.
Select the correct option
NRZ
NRZ-I
8B/10B
8B/12B

CS601:Grand Quiz

Question # 4 of 30 (Start time: 12:28:06 AM, 01 July 2020)

In analog transmission of digital data, the required bandwidth is always proportional to the signal r

Select the correct option

- ASK
- FSK
- PSK
- NSK

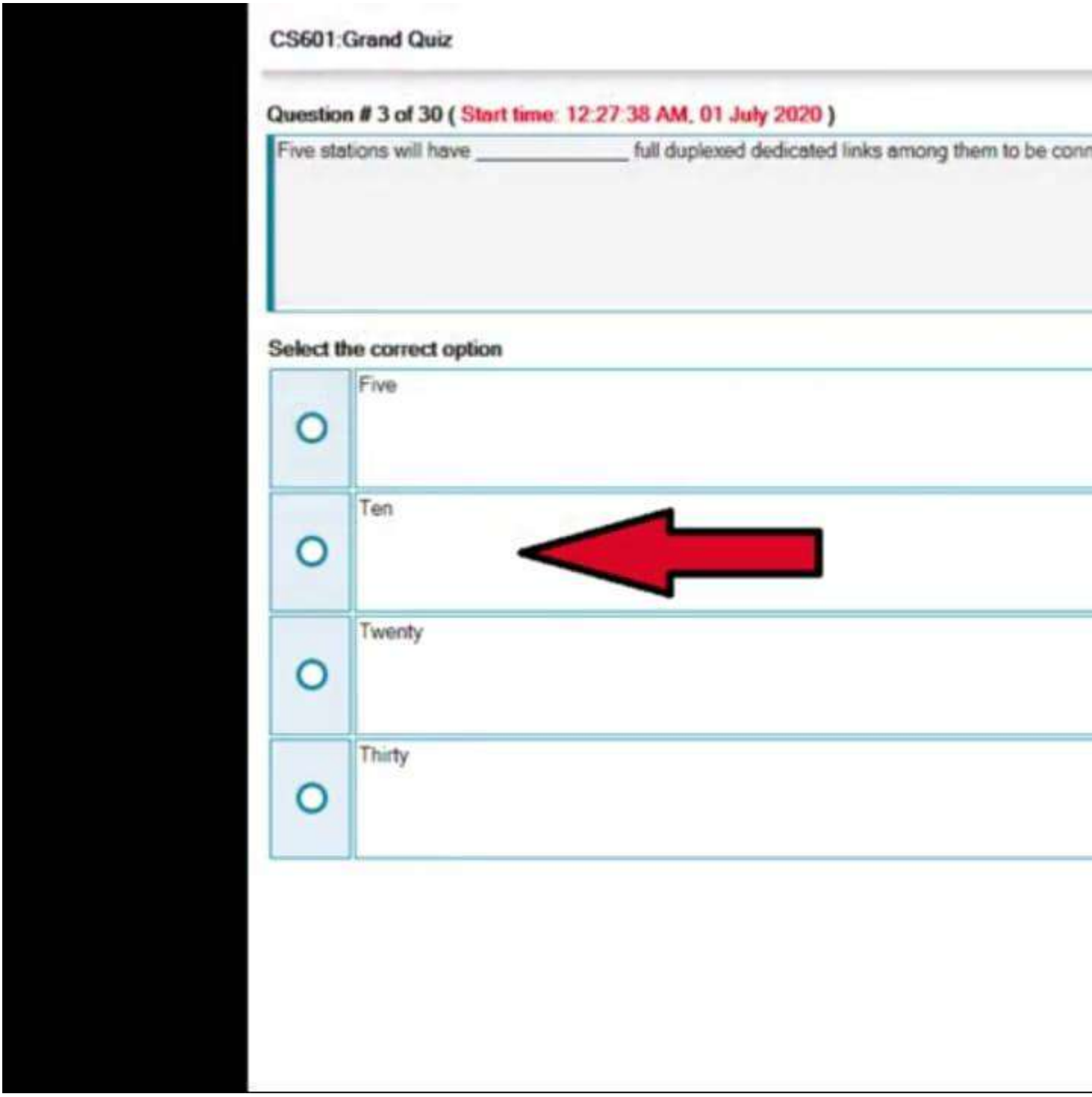
CS601:Grand Quiz

Question # 5 of 30 (Start time: 12:28:23 AM, 01 July 2020)

Which one of the following is not a bipolar encoding level?

Select the correct option

- Negative
- One
- Zero
- Positive


CS601:Grand Quiz
Question # 3 of 30 (Start time: 12:27:38 AM, 01 July 2020)
Five stations will have _____ full duplexed dedicated links among them to be conn
Select the correct option
Five
Ten
Twenty
Thirty

CS601:Grand Quiz

Question # 2 of 30 (Start time: 12:26:58 AM, 01 July 2020)

PSK is _____ susceptible to noise as compared to ASK.

Select the correct option

- Equally
- Less
- More
- Highly

CS601:Grand Quiz

Question # 1 of 30 (Start time: 12:26:17 AM, 01 July 2020)

A network is geographically spread over a country with interconnected devices, such as Routers and Modems. T

Select the correct option

- MAN
- WAN
- WLAM
- LAN

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1. ARP
2. HDLC
3. Channelization
4. Layer protocol type
5. Encode scheme
6. HDLC fram type
7. Inter LATA
8. Haming distance
9. What is cm/cmts
10. Data link layer service
11. DLC protocol

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13. Address resolution
14. LAN protocol
15. How checksum work
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CS-601 Data Communication Update MCQS For Final Term Solve By Vu Topper RM

85% To 100% Marks



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Question No:1 **(Marks:1)** **Vu-Topper RM**

Which one of the following is a correct controlled-access method?

A. Polling
B. Reservation
C. Token Passing
D. All of the given

Question No:2 **(Marks:1)** **Vu-Topper RM**

Which one of the following is a Random-Access protocol?

A. TDMA
B. ALOHA
C. CDMA/CA
D. CDMA/CD

Question No:3 **(Marks:1)** **Vu-Topper RM**

What was the main draw back in ALOHA Random-Access method?

A. Potential Collision
B. Redundancy in Data
C. Inconsistent Data rate
D. All of the given

Question No:4 **(Marks:1)** **Vu-Topper RM**

The_____ method has the highest chance of collision because two or more stations may find the line idle and send their frames immediately.

A. p-Persistent
B. Non-persistent
C. All of the given
D. 1 persistent method

Vu Topper RM

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Question No:5 **(Marks:1)** **Vu-Topper RM**

Fast Ethernet has a data rate of _____Mbps.

A. 100
B. 200
C. 300
D. 400

Question No:6 **(Marks:1)** **Vu-Topper RM**

In the context of Ethernet Implementations, maximum medium length of 10 Base-F was _____meters.

A. 150
B. 500
C. 1000
D. 2000

Question No:7 **(Marks:1)** **Vu-Topper RM**

_____ works with topologies in which one device is designated as a primary station and the other devices are secondary stations.

A. Polling
B. Token Passing
C. Reservation
D. None of the given

Question No:8 **(Marks:1)** **Vu-Topper RM**

For Carrier Sense Multiple Access/Collision Detection (CSMA/CD), we need a restriction on the_____.

A. Frame size
B. Signal Size
C. Station Size
D. Collision size

Vu Topper RM

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Question No:9 **(Marks:1)** **Vu-Topper RM**

In Ethernet frame, both destination and sender addresses are of length _____.

A. 1 byte
B. 2 bytes
C. 4 bytes
D. 6 bytes

Question No:10 **(Marks:1)** **Vu-Topper RM**

DSL stands for _____.

A. data switched line
B. digital switched line
C. data subscriber line
D. Digital subscriber line **Google**

Question No:11 **(Marks:1)** **Vu-Topper RM**

In _____each band is reserved for a specific station, and it belongs to the station all the time.

A. CSMA
B. CDMA
C. FDMA
D. TDMA

Question No:12 **(Marks:1)** **Vu-Topper RM**

When we represent the data in CDMA, if a station is idle then it sends_____.

A. 0
B. -1
C. Infinity
D. 1

Vu Topper RM

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Question No:13 **(Marks:1)** **Vu-Topper RM**

Which one of the following is not a Channelization Protocol?

A. CSMA
B. TDMA
C. FDMA
D. CDMA

Question No:14 **(Marks:1)** **Vu-Topper RM**

_____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

A. Fast Ethernet
B. Gigabit Ethernet
C. Standard Ethernet
D. 10BASE-T Ethernet

Question No:15 **(Marks:1)** **Vu-Topper RM**

In random access method, when two or more than two nodes transmit frames at the same time then _____.

A. All the frames in collision are lost
B. Collision has no effect on frames
C. All the frames in collision survives
D. None of the these

Question No:16 **(Marks:1)** **Vu-Topper RM**

Normally the value of Kmax in pure ALOHA is _____.

A. 25
B. 10
C. 15
D. 30

Vu Topper RM

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Question No:17 **(Marks:1)** **Vu-Topper RM**

_____ is/are un-reliable protocol(s).

A. TCP
B. UDP
C. IP and TCP
D. IP and UDP

Question No:18 **(Marks:1)** **Vu-Topper RM**

Transmission Control Protocol is a(n) _____ layer protocol.

A. Session
B. Transport
C. Application
D. None of these

Question No:19 **(Marks:1)** **Vu-Topper RM**

POTS stand for _____?

A. Plain Old Time Sharing
B. Plain Old Telephone Set
C. Plain Old Telephone Service
D. Plain old telephone system **Google**

Question No:20 **(Marks:1)** **Vu-Topper RM**

In _____, each station sends a frame whenever it has a frame to send.

A. Pure ALOHA
B. Slotted ALOHA
C. None of the given
D. Integrated ALOHA

Vu Topper RM

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Question No:21 **(Marks:1)** **Vu-Topper RM**

_____ uses thin coaxial cable.

A. 10Base5
B. 10Base-F
C. 10Base-T
D. 10BASE2

Question No:22 **(Marks:1)** **Vu-Topper RM**

_____ was used as the medium in 10 Base-T.

A. Thick Coaxial Cable
B. Thin Coaxial Cable
C. Twisted-pair cabling
D. Two Mode Fiber Cable

Question No:23 **(Marks:1)** **Vu-Topper RM**

_____ uses thick coaxial cable.

A. 10Base2
B. 10Base-F
C. 10BASE5
D. 10Base-T

Question No:24 **(Marks:1)** **Vu-Topper RM**

Collisions in CSMA/CA are avoided through _____.

A. The Interframe Space
B. The Contention Window
C. Acknowledgements
D. All of the given

Question No:25 **(Marks:1)** **Vu-Topper RM**

Ethernet Address is of _____ bytes.

A. 4
B. 6 **Google**

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Vu Topper RM

C. 8
D. 12

Question No:26 **(Marks:1)** **Vu-Topper RM**

MAC stand for _____?

A. Main Access Control
B. Media Access Control **Google**
C. Media Access Controller
D. Mandatory Access Control

Question No:27 **(Marks:1)** **Vu-Topper RM**

Possession of TOKEN gives the station the right to_____.

A. Modify the data
B. Send the data
C. Delete the data
D. Receive the data

Question No:28 **(Marks:1)** **Vu-Topper RM**

In telephone network, POP stand for_____?

A. Pride Of Place
B. Proof Of Purchase
C. Point Of Presence **Handout**
D. Post Order Protocol

Question No:29 **(Marks:1)** **Vu-Topper RM**

In CSMA/CA, _____ is the amount of time divided into slots.

A. Collided Window
B. Interframe Window
C. Fragmented Window
D. Contention Window **Google**

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Vu Topper RM

Question No:30 **(Marks:1)** **Vu-Topper RM**

In _____, each station is forced to send a frame only at beginning of time slot.

A. Upper ALOHA
B. Lower ALOHA
C. Slotted ALOHA
D. Integrated ALOHA

Question No:31 **(Marks:1)** **Vu-Topper RM**

In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

A. Same as
B. Three times
C. Two times
D. Four times

Question No:32 **(Marks:1)** **Vu-Topper RM**

No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between --------.

A. Virtual LANs
B. Ethernet links
C. Two adjacent nodes
D. Source and destination PCs

Question No:33 **(Marks:1)** **Vu-Topper RM**

_____ is an Authentication Protocol, which uses two-step process to authenticate user information.

A. PAP
B. LCP
C. CHAP
D. ICMP

Vu Topper RM

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Question No:34 **(Marks:1)** **Vu-Topper RM**

Error detection and correction are the services provided by _____ layer.

A. Session layer
B. Physical layer
C. Data link layer
D. Application layer

Question No:35 **(Marks:1)** **Vu-Topper RM**

In circuit switching, when two end devices "A" and "B" connects with each other they send _____ request.

A. Setup
B. Inquiry
C. Switching
D. Acceptance

Question No:36 **(Marks:1)** **Vu-Topper RM**

A switched network consists of a series of interlinked _____ called switches.

A. Root
B. Nodes **Google**
C. Points
D. System

Question No:37 **(Marks:1)** **Vu-Topper RM**

In case of higher data rate, the number of impacted bits will be _____.

A. Zero
B. Lower
C. Higher
D. Normal

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Question No:38 **(Marks:1)** **Vu-Topper RM**

_____are used to exchange session management and control information between connected devices.

A. I-frames
B. U-frames
C. S-frames
D. N-frames

Question No:39 **(Marks:1)** **Vu-Topper RM**

Data Link layer receives services from the _____ layer.

A. Session
B. Physical
C. Transport
D. Application

Question No:40 **(Marks:1)** **Vu-Topper RM**

If we increase the data rate of a transmission over noisy channel, fixed noise duration will cause _____ number of bits being impacted by the noise.

A. Less **Google**
B. More
C. Same
D. Constant

Question No:41 **(Marks:1)** **Vu-Topper RM**

One of the most common protocols for point-to-point access is _____.

A. IP
B. TCP
C. PPP
D. UDP

Vu Topper RM

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Question No:42 **(Marks:1)** **Vu-Topper RM**

CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

A. Two-way
B. Four-way
C. Five-way
D. Three-way

Question No:43 **(Marks:1)** **Vu-Topper RM**

Payload field of the PPP frame is of variable size and it can carry maximum data up to _____.

A. 10 bytes
B. 100 bytes
C. 500 bytes
D. 1500 bytes

Question No:44 **(Marks:1)** **Vu-Topper RM**

In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI_____.

A. Always Changes
B. Remain the Same
C. Sometimes Changes
D. Sometimes Remain Same

Question No:45 **(Marks:1)** **Vu-Topper RM**

To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

A. Physical
B. Data link
C. Network
D. Presentation

Vu Topper RM

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Question No:46 **(Marks:1)** **Vu-Topper RM**

PAP and CHAP are used by _____ as Authentication Protocols.

A. PPP
B. SMTP
C. ICMP
D. TCP/IP

Question No:47 **(Marks:1)** **Vu-Topper RM**

Error correction is more _____ than the error detection.

A. Easy
B. Useless
C. Difficult
D. Informal

Question No:48 **(Marks:1)** **Vu-Topper RM**

Virtual-Circuit Networks and datagram networks are the sub categories of _____.

A. Packet-switched networks
B. Circuit Switched Networks
C. Message switched networks
D. Both circuit and message switched networks

Question No:49 **(Marks:1)** **Vu-Topper RM**

A virtual-circuit network is a cross between a _____ network and a datagram network.

A. Circuit-switched
B. Packet switched
C. Message switched
D. Both message and packet switched network

Vu Topper RM

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Question No:50 **(Marks:1)** **Vu-Topper RM**

In circuit switching total Delay is combination of Connection Time, Data transfer time and _____.

A. Switching time
B. Receiving time
C. Acknowledgement time
D. Connection tear down time

Question No:51 **(Marks:1)** **Vu-Topper RM**

A local telephone network use _____ network.

A. Line switched
B. Circuit switched
C. Bit switched
D. Packet switched

Question No:52 **(Marks:1)** **Vu-Topper RM**

The _____ protocol uses both flow and error control.

A. ICMP
B. HDLC
C. TCP/IP
D. Stop-and-wait

Question No:53 **(Marks:1)** **Vu-Topper RM**

VCI address is _____ address in virtual circuit approach.

A. Private
B. Variable
C. Global

Question No:54 **(Marks:1)** **Vu-Topper RM**

A virtual-circuit network operates on _____ layer.

A. Network **Google**
B. Physical

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C. Datalink
D. Application

Question No:55 (Marks:1) Vu-Topper RM

If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

A. More
B. Zero
C. Less
D. Constant

Question No:56 (Marks:1) Vu-Topper RM

The _____ is the number of signal elements sent per unit time.

A. Period
B. Bit rate
C. Data rate
D. Signal rate

Question No:57 (Marks:1) Vu-Topper RM

_____ is not a function of Data Link Control.

A. Framing
B. Modulation
C. Error Control
D. Flow Control

Question No:58 (Marks:1) Vu-Topper RM

Congestion Control is a feature of _____ layer(s).

A. Network
B. Transport
C. Data Link
D. All mentioned.

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Question No:59 **(Marks:1)** **Vu-Topper RM**

_____ and _____are the two types of addressing in virtual circuit approach.

A. **Local, Global**
B. Private, Public
C. Variable, Dynamic
D. Dependent, Independent

Question No:60 **(Marks:1)** **Vu-Topper RM**

In Linear Block codes, _____ of two valid code words creates another valid code word.

A. OR
B. NOR
C. XOR
D. AND

Question No:61 **(Marks:1)** **Vu-Topper RM**

The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

A. Blocked
B. Cleaned
C. Escaped
D. Duplicated

Question No:62 **(Marks:1)** **Vu-Topper RM**

In even parity check code, the value of syndrome is _____ if the number of 1s is even.

A. 1
B. 2
C. 0
D. 4

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Question No:63 **(Marks:1)** **Vu-Topper RM**

In circuit switched networks we have low efficiency but minimal _____.

A. Errors
B. Delay
C. Speed
D. Throughput

Question No:64 **(Marks:1)** **Vu-Topper RM**

Data link layer is divided into _____ sub layers.

A. Two
B. Five
C. Three
D. Seven

Question No:65 **(Marks:1)** **Vu-Topper RM**

The message 110 sent by a source is received by a destination as 111. This is _____type of error.

A. Bytes
B. Burst
C. Multi-bit
D. Single bit

Question No:66 **(Marks:1)** **Vu-Topper RM**

Go-Back-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

A. Physical
B. Network
C. Data link
D. Presentation

Vu Topper RM

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Question No:67 **(Marks:1)** **Vu-Topper RM**

_____ is an Authentication Protocol, which is used by the PPP to authenticate passwords.

A. LCP
B. PAP
C. ICMP
D. CHAM

Question No:68 **(Marks:1)** **Vu-Topper RM**

S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

A. Control
B. Original
C. User data
D. Redundant

Question No:1 **(Marks:1)** **Vu-Topper RM**

In Block coding scheme, number of code words is always _____ data words.

A. Equal to
B. Same as
C. Less than
D. Greater than

Question No:69 **(Marks:1)** **Vu-Topper RM**

In----------, collisions are avoided by deferring transmission even if the channel is idle.

A. The Slotted Frame
B. The Interframe Space
C. The Deployment Frame
D. The Contention Window

Vu Topper RM

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Question No:70 **(Marks:1)** **Vu-Topper RM**

The extra bits added with the original data for error detection/correction are called _____.

A. Fault bits
B. Process IDs
C. Port numbers
D. Redundant bits

Question No:71 **(Marks:1)** **Vu-Topper RM**

High-Level Data Link Control (HDLC) defines _____ types of frames to deal with the transfer modes.

A. One
B. Two
C. Three
D. Four

Question No:72 **(Marks:1)** **Vu-Topper RM**

In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

A. Polling
B. Reservation
C. Token Passing
D. Port Forwarding

Question No:73 **(Marks:1)** **Vu-Topper RM**

The type of ALOHA which improves the efficiency of Pure ALOHA is

A. Upper ALOHA
B. Lower ALOHA
C. Slotted ALOHA
D. Integrated ALOHA

Vu Topper RM

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Question No:74 **(Marks:1)** **Vu-Topper RM**

_____ is the process of converting digital data to digital signals.

A. CSMA/CD
B. CSMA/CA
C. Line coding
D. Segmentation

Question No:75 **(Marks:1)** **Vu-Topper RM**

If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.

A. ≠ 0
B. =1
C. =0
D. ≠ 1

Question No:76 **(Marks:1)** **Vu-Topper RM**

In _____, each station is allocated a time slot during which it can send data.

A. CDMA
B. NDMA
C. TDMA
D. FDMA

Question No:77 **(Marks:1)** **Vu-Topper RM**

_____ works with topologies in which one drvice is designated as a primary station and the other devices are secondary stations.

A. Token
B. Polling
C. Reservation
D. None of the given

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Question No:78 **(Marks:1)** **Vu-Topper RM**

If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations.

A. 16
B. 2
C. 4
D. 8

Question No:79 **(Marks:1)** **Vu-Topper RM**

Checksum is an error-detection technique that can be applied to a message of _____ length.

A. Any
B. Exactly 4
C. Exactly 8
D. Exactly 32

Question No:80 **(Marks:1)** **Vu-Topper RM**

CDMA stands for _____.

A. Code Data Multiple Access
B. Carrier Data Multiple Access
C. Code Division Multiple Access
D. Carrier Division Multiple Access

Question No:81 **(Marks:1)** **Vu-Topper RM**

In Block coding we divide our message into blocks of k bits called as

A. Passwords
B. Cross word
C. Code words
D. Data words

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Question No:82 **(Marks:1)** **Vu-Topper RM**

Stop-and-Wait protocol is used for _____

A. Error control only
B. Flow control only
C. Both flow and error control
D. Neither flow nor error control

Question No:83 **(Marks:1)** **Vu-Topper RM**

In order to find hamming distance between two pair of words, _____ logical operation is used.

A. OR
B. XOR
C. AND
D. NAND

Question No:84 **(Marks:1)** **Vu-Topper RM**

The message 1110 sent by a source is received by a destination as 1011. This is _____type of error.

A. Burst
B. Uni-Bit
C. Hamming
D. Single-Bit

Question No:85 **(Marks:1)** **Vu-Topper RM**

In order to resolve link layer address of the next node, the first generated ARP request is always in _____ mode.

A. Unicast
B. Multiplex
C. Multicast
D. Broadcast

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Question No:86 **(Marks:1)** **Vu-Topper RM**

_____ is responsible for governing node to node communication.

A. Session Layer
B. Data link layer
C. Application Layer
D. Presentation Layer

Question No:87 **(Marks:1)** **Vu-Topper RM**

Media Access Control (MAC) and Data Link Control (DLC) constitute _____ layer.

A. Physical
B. Network
C. Data link
D. Transport

Question No:88 **(Marks:1)** **Vu-Topper RM**

a3:34:45:11:92:F1 is a _____ link layer address.

A. Unicast
B. Multiplex
C. Multicast
D. Broadcast

Question No:89 **(Marks:1)** **Vu-Topper RM**

ff:FF:FF:FF:FF:FF is a _____ link layer address.

A. Unicast
B. Multiplex
C. Multicast
D. Broadcast

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Question No:90 **(Marks:1)** **Vu-Topper RM**

In character oriented protocol, each character of frame is encoded using---------- coding system.

A. NRZ
B. ASCII
C. Unicode
D. Bipolar AMI

Question No:91 **(Marks:1)** **Vu-Topper RM**

In the _____ method, the stations in a network are organized in a logical ring.

A. Polling
B. Reservation
C. Token-passing
D. None of these

Question No:92 **(Marks:1)** **Vu-Topper RM**

In _____ a station monitors the medium after it sends a frame to see if the transmission was successful.

A. CSMA
B. CSMA/CA
C. CSMA/CD
D. None of these

Question No:93 **(Marks:1)** **Vu-Topper RM**

In _____ protocol, the sender sends one frame at a time and waits for an acknowledgment before sending the next one.

A. Simple
B. Go-Back-N
C. Stop-and-wait
D. Selective-Repeat

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Question No:94 **(Marks:1)** **Vu-Topper RM**

In MAC, when nodes use a multi-point or broadcast link, we need a _____ to coordinate access to the link.

A. Telnet Protocol
B. Application Protocol
C. Data encrypt Protocol
D. Multiple-access protocol

Question No:95 **(Marks:1)** **Vu-Topper RM**

Like 10 Base 5, 10 Base 2 is a _____ topology LAN.

A. Ring
B. Mesh
C. Star
D. Bus

Question No:96 **(Marks:1)** **Vu-Topper RM**

The transmission medium that carries the message is referred to as the

A. Protocol
B. Gateways
C. Send and receive device
D. Communication channel

Question No:97 **(Marks:1)** **Vu-Topper RM**

Analog signals are referring to be _____

A. Discrete
B. Periodic
C. Continuous
D. None of these

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Question No:98 **(Marks:1)** **Vu-Topper RM**

There are _____ types of serial transmission.

A. 3
B. 4
C. 2
D. None of the given

Question No:99 **(Marks:1)** **Vu-Topper RM**

There are three types of Hubs that exist. Which of the following options correctly describes these three?

A. Passive, Active, Turbo
B. Passive, dormant, special
C. Active , dormant , passive
D. Passive, Active, Intelligent

Question No:100 **(Marks:1)** **Vu-Topper RM**

_____ is the rate of change with respect to time.

A. Voltage
B. Time
C. Frequency
D. Amplitude

Question No:101 **(Marks:1)** **Vu-Topper RM**

What is the frequency of a sine wave if it completes one cycle in 2 seconds?

A. 0.5
B. 0.6
C. 0.3
D. 0.2

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Question No:102 **(Marks:1)** **Vu-Topper RM**

_____ relatively measures the strength of two signals.

A. Signal rate
B. Bit rate
C. Decibel
D. Pulse Rate

Question No:103 **(Marks:1)** **Vu-Topper RM**

Central Hub in a Tree is an _____.

A. Active hub
B. passive hub
C. Both
D. None of these

Question No:104 **(Marks:1)** **Vu-Topper RM**

At the CRC generator, _____ added to the data unit before the divisional process.

A. 0s are
B. 1s are
C. a polynomial is
D. a CRC remainder is

Question No:105 **(Marks:1)** **Vu-Topper RM**

A broadcast signal is received by the orbiting satellites which rebroadcasts _____.

A. to the resender
B. to the sender
C. to the atmosphere
D. none of the given

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Question No:106 **(Marks:1)** **Vu-Topper RM**

In _____, a signal is directed straight from antenna to antenna.

A. Space propagation
B. Ground propagation
C. None of the these
D. Line of sight propagation

Question No:107 **(Marks:1)** **Vu-Topper RM**

Which of the following consist of just one redundant bit per data unit?
Two-dimensional Parity check.

A. CRC
B. Checksum
C. None of these
D. Simple Parity Check

Question No:108 **(Marks:1)** **Vu-Topper RM**

The term _____means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

A. Burst Error
B. Packet Error
C. Character Error
D. Single Bit Error

Question No:109 **(Marks:1)** **Vu-Topper RM**

Flow control is needed to prevent _____.

A. Bit errors
B. Overflow of the sender buffer
C. Overflow of the receiver buffer
D. Collision between sender and receiver

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Question No:110 **(Marks:1)** **Vu-Topper RM**

A fiber -optic cable transmit signals in the form of _____.

A. Light
B. Sound
C. Wave
D. None of the given

Question No:111 **(Marks:1)** **Vu-Topper RM**

The inversion of the level at 1 bit is called as _____.

A. NRZ-L
B. NRZ-I
C. RNR-L
D. NRA-L

Question No:112 **(Marks:1)** **Vu-Topper RM**

Data is transmitted using light through a _____ cable.

A. coaxial
B. fiber-optic
C. microwave
D. twisted pair

Question No:113 **(Marks:1)** **Vu-Topper RM**

In OSI model headers are added at layer _____.

A. 1,2,3 only
B. 6,5,7 only
C. 5,4,3 only
D. 6,5,4,3,2 only

Question No:114 **(Marks:1)** **Vu-Topper RM**

In ASK, both _____ and _____ remain constant.

A. Amplitude, phase
B. Frequency, Phase

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C. Amplitude, Samples
D. Amplitude, Frequency

Question No:115 (Marks:1) Vu-Topper RM

Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

A. Checksum
B. Cyclic Redundancy Check (CRC)
C. Longitudinal Red Check (LRC)
D. Vertical Redundancy Check (VRC)

Question No:116 (Marks:1) Vu-Topper RM

The most common type of connector used by coaxial cable is _____.

A. BNC
B. RJ-45
C. RJ-11
D. RJ-57

Question No:117 (Marks:1) Vu-Topper RM

What is the period of a Sine wave having frequency of 10 Hz?

A. 0.2
B. 0.1
C. 0.5
D. 0.3

Question No:118 (Marks:1) Vu-Topper RM

In _____, both peak amplitude and frequency remains constant as the phase changes.

A. PSK
B. QAM
C. None of these

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D. Both PSK & QAM

Question No:119 **(Marks:1)** **Vu-Topper RM**

There are _____types of guided media.

A. 2
B. 3
C. 4
D. 5

Question No:120 **(Marks:1)** **Vu-Topper RM**

Terminal, microprocessor, computer, printer or any other device that generates or consumes digital data is known as _____

A. DCE
B. DTE
C. DCE & DTE
D. None of the given

Question No:121 **(Marks:1)** **Vu-Topper RM**

Sampling means measuring _____ of signal at equal intervals

A. Amplitudes
B. Frequencies
C. Phases
D. None of these

Question No:122 **(Marks:1)** **Vu-Topper RM**

A sine wave is _____.

A. periodic and discrete
B. aperiodic and discrete
C. periodic and continuous
D. aperiodic and continuous

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Question No:123 **(Marks:1)** **Vu-Topper RM**

To make sure that source does not overwhelm destination by sending data faster than it can be handled and processed is called?

A. Recovery
B. Flow Control
C. Addressing & Routing
D. Exchange Management

Question No:124 **(Marks:1)** **Vu-Topper RM**

If a digital signal has "L" number of levels. _____ is the number of bits required to represent each level.

A. Log L
B. L Square
C. Log(2*L)
D. Log Base 2 L

Question No:125 **(Marks:1)** **Vu-Topper RM**

_____ category of coaxial cable is used for Cable TV.

A. RG-58
B. RG-59
C. RG-11
D. RG-57

Question No:126 **(Marks:1)** **Vu-Topper RM**

Radio is an example of _____ signal conversion.

A. Analog to analog
B. Analog to digital
C. Digital to Digital
D. Digital to analog

Vu Topper RM

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Question No:127 **(Marks:1)** **Vu-Topper RM**

Analog To Analog Conversion Methods include _____.

A. AM, PM and FM

B. AM, FSK and PM

C. AM, PM and QAM

D. None of the given

Question No:128 **(Marks:1)** **Vu-Topper RM**

The original Ethernet technology with the data rate of 10 Mbps is called _____?

A. Standard Ethernet

B. Fast Ethernet

C. Gigabit Ethernet

D. 10 Gigabit Ethernet

Question No:129 **(Marks:1)** **Vu-Topper RM**

Which of the following is not a characteristic of a sine wave?

A. Phase

B. Frequency

C. Amplitude

D. Segmentation

Question No:130 **(Marks:1)** **Vu-Topper RM**

In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

A. 28

B. 16

C. 8

D. 4

Vu Topper RM

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Question No:131 **(Marks:1)** **Vu-Topper RM**

_____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.

A. Frame sequencing
B. Acknowledgement numbering
C. Counter and Timer reset
D. Frame sequencing and Acknowledgement numbering

Question No:132 **(Marks:1)** **Vu-Topper RM**

Which one of the following is a correct-access method?

A. Polling
B. Reservation
C. Token Passing
D. All of the given

Question No:133 **(Marks:1)** **Vu-Topper RM**

In the encoding where positive to negative transition is one and vice versa is zero.

A. Manchester
B. Differential Manchester
C. All of the given
D. None of given

Question No:134 **(Marks:1)** **Vu-Topper RM**

If the window size is 63 in go-back N ARQ then what is the range of sequence number?

A. 0 to 63
B. 0 to 64
C. 1 to 63
D. 1 to 64

Vu Topper RM

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Question No:135 **(Marks:1)** **Vu-Topper RM**

At the CRC checker, _____ means that the data unit is damaged.

A. A string of 0s
B. A string of 1s
C. A nonzero remainder
D. A string of alternating 1s and 0s

Question No:136 **(Marks:1)** **Vu-Topper RM**

Human voice is example of _____ signal.

A. Digital
B. Analog
C. Discrete
D. None of the given

Question No:137 **(Marks:1)** **Vu-Topper RM**

In statistical time division multiplexing, number of slots in frame are less than _____.

A. Input lines
B. Input frequency
C. Output data rate
D. Multiplexed T lines

Question No:138 **(Marks:1)** **Vu-Topper RM**

A _____ modem is used to connect two DTEs directly.

A. DSL
B. Cable
C. 'NULL
D. None of the given

Question No:139 **(Marks:1)** **Vu-Topper RM**

Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

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A. Zero
B. Large
C. Small
D. Medium

Question No:140 (Marks:1) Vu-Topper RM

_____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

A. N+1
B. N-1
C. N(N+1)
D. None of the given.

Question No:141 (Marks:1) Vu-Topper RM

_____ is sometimes called the bit rate.

A. signal rate
B. Data rate
C. pulse rate
D. modulation rate

Question No:142 (Marks:1) Vu-Topper RM

_____ category of coaxial cable is used for thin Ethernet.

A. RG-1
B. RG-58
C. RG-59
D. RG-47

Question No:143 (Marks:1) Vu-Topper RM

Which one is not the function of data link layer?

A. Flow control
B. Error control
C. Line discipline

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Vu Topper RM

D. Network control

Question No:144 **(Marks:1)** **Vu-Topper RM**

_____ mode of serial transmission guarantees fixed rate of data.

A. Synchronous
B. Asynchronous
C. Isochronous
D. Metachronous

Question No:145 **(Marks:1)** **Vu-Topper RM**

Data Link layer provides services to the _____ layer.

A. Session
B. Network
C. Transport
D. Application

Question No:146 **(Marks:1)** **Vu-Topper RM**

The logical connection between the peer layers is _____ connection.

A. Direct
B. Indirect
C. Physical
D. Tangible

Question No:147 **(Marks:1)** **Vu-Topper RM**

What is the period of a Sine wave having frequency of 5 Hz?

A. 0.2
B. 0.1
C. 0.5
D. 0.3

Vu Topper RM

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Question No:148 **(Marks:1)** **Vu-Topper RM**

A sine wave is defined by _____ characteristics.

A. 2
B. 3
C. 4
D. 5

Question No:149 **(Marks:1)** **Vu-Topper RM**

The _____ generates the data and passes it along with any control information to a _____.

A. DTE, DCE
B. DCE, DTE
C. DTE, DTE
D. DCE, DCE

Question No:150 **(Marks:1)** **Vu-Topper RM**

What is the period of a Sine wave having frequency of 2 Hz?

A. 0.2
B. 0.1
C. 0.5
D. 0.3

Question No:151 **(Marks:1)** **Vu-Topper RM**

WDM stands for _____.

A. Wideband De-Modulation
B. Worst Data Manipulation
C. Wavelength Division Multiplexing
D. None of the given

Vu Topper RM

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Question No:152 **(Marks:1)** **Vu-Topper RM**

Latency is made of _____ components.

A. Two
B. Four
C. Five
D. Three

Question No:153 **(Marks:1)** **Vu-Topper RM**

The logical connection between the peer layers is _____ connection.

A. Physical
B. Direct
C. Indirect
D. Tangible

Question No:154 **(Marks:1)** **Vu-Topper RM**

In line discipline after the data transmission, the sending system finishes with an _____ frame.

A. EOT
B. EKT
C. ENT
D. ESP

Question No:155 **(Marks:1)** **Vu-Topper RM**

_____ of a signal is the collection of all the component frequencies it contains.

A. Time domain
B. Frequency domain
C. Frequency spectrum
D. None of the given

Vu Topper RM

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Question No:156 **(Marks:1)** **Vu-Topper RM**

In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____.

A. Framing
B. Packetizing
C. Encapsulation
D. De-encapsulation

Question No:157 **(Marks:1)** **Vu-Topper RM**

AM signal requires _____ the BW of original signal

A. Half
B. Same
C. Twice
D. Three Times

Question No:158 **(Marks:1)** **Vu-Topper RM**

Asynchronous transmission is _____.

A. Fast
B. Slow
C. Costly
D. None effective

Question No:159 **(Marks:1)** **Vu-Topper RM**

Time division multiplexing is used in _____ systems.

A. Analog
B. Hybrid
C. Digital
D. Automated

Question No:160 **(Marks:1)** **Vu-Topper RM**

Radio wave transmission utilizes _____ different types of propagation.

Vu Topper RM

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A. Two
B. Four
C. Five
D. Three

Question No:161 **(Marks:1)** **Vu-Topper RM**

At the Application layer, object/information is in the form of _____

A. Frame
B. Packet
C. Segment
D. Message

Question No:162 **(Marks:1)** **Vu-Topper RM**

POST stand for _____?

A. Plain Old Telephone Set
B. Plain Old Time Sharing
C. Plain Old Telephone System
D. Plain Old Telephone Service

Question No:163 **(Marks:1)** **Vu-Topper RM**

Which of the following statement is correct?

A. Analog Signals are less prone to Noise
B. Digital signals are less prone to Noise
C. Digital signals are highly prone to Noise
D. Digital signals are not affected by Noise

Question No:164 **(Marks:1)** **Vu-Topper RM**

In selective-reject ARQ, only the specific damaged or lost frame is--

A. Selected
B. Rejected
C. Forwarded
D. Retransmitted

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Vu Topper RM

Question No:165 **(Marks:1)** **Vu-Topper RM**

Encoding digital data into digital signals is called _____.

A. Analog-to-Digital Conversion
B. Digital-to-Analog Conversion
C. Digital-to-Digital Conversion
D. None of the given

Question No:166 **(Marks:1)** **Vu-Topper RM**

Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.

A. FSK, PSK
B. PSK, FSK
C. ASK, PSK
D. ASK, FSK

Question No:167 **(Marks:1)** **Vu-Topper RM**

In frequency shift keying, _____ remain(s) constant.

A. Frequency
B. Amplitude
C. Both Amplitude and Phase
D. Both Phase and Frequency

Question No:168 **(Marks:1)** **Vu-Topper RM**

We can have _____ different groups with a 4 bit block.

A. 4
B. 8
C. 16
D. 32

Question No:169 **(Marks:1)** **Vu-Topper RM**

Line Configuration refers to the way two or more devices attach to a

A. Path

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B. Link
C. Router
D. Circuit

Question No:170 **(Marks:1)** **Vu-Topper RM**
There are _____ basic categories of multiplexing.
A. 2
B. 3
C. 7
D. 5

Question No:171 **(Marks:1)** **Vu-Topper RM**
Low pass channel has _____ bandwidth between two stations.
A. Shared
B. Infinite
C. Dedicated
D. Multiplexed

Question No:172 **(Marks:1)** **Vu-Topper RM**
BSC supports _____ transmission using _____ flow control.
A. Full-duplex, Stop and wait ARQ
B. Half-duplex, Selective reject ARQ
C. Full-duplex, Selective reject ARQ
D. Half-duplex, Stop and wait ARQ

Question No:173 **(Marks:1)** **Vu-Topper RM**
Quantization is a method of assigning _____ values in a specific range to sampled instances.
A. Binary
B. Positive
C. Negative

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D. Integral

Question No:174 **(Marks:1)** **Vu-Topper RM**

_____ encoding is almost obsolete today

A. Polar
B. Bipolar
C. Unipolar
D. None of the given

Question No:175 **(Marks:1)** **Vu-Topper RM**

YMODEM has _____ Byte of data unit.

A. 256
B. 128
C. 512
D. 1024

Question No:176 **(Marks:1)** **Vu-Topper RM**

In CRC there is no error if the remainder at the receiver is _____.

A. Zero
B. Nonzero
C. The quotient at the sender
D. Equal to the remainder at the sender

Question No:177 **(Marks:1)** **Vu-Topper RM**

A portion of the path that carries TX between a given pair of devices is known as _____.

A. Bridge
B. Channel
C. Direct Point
D. Access Point

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Question No:178 **(Marks:1)** **Vu-Topper RM**

What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 200, 400, 600 and 800?

A. 100
B. 500
C. 300
D. 600

Question No:179 **(Marks:1)** **Vu-Topper RM**

Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

A. Local Area Network
B. Wide Area Network
C. Home Based Network
D. Metropolitan Area Network

Question No:180 **(Marks:1)** **Vu-Topper RM**

Which layer is concerned with the syntax and semantics of info exchange between two systems?

A. Session
B. Physical
C. Application
D. Presentation

Question No:181 **(Marks:1)** **Vu-Topper RM**

Time domain shows changes in _____.

A. Time
B. time w.r.t signal amplitude
C. signal amplitude w.r.t time
D. All of the given

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Question No:182 **(Marks:1)** **Vu-Topper RM**

In analog transmission, the base signal is called the_____.

A. Digital signal
B. Analog signal
C. Carrier Signal
D. Modulated signal

Question No:183 **(Marks:1)** **Vu-Topper RM**

Which of the following is most affected by noise?

A. PSK
B. ASK
C. FSK
D. QAM

Question No:184 **(Marks:1)** **Vu-Topper RM**

DLC in Data Link Layer stands for ____.

A. Data Line Code
B. Data Link Control
C. Demand Link Coordination
D. Divide Line Communication

Question No:185 **(Marks:1)** **Vu-Topper RM**

In Pulse Code Modulation (PCM), the sampling is dependent on---

A. Time
B. Amplitude
C. Frequency
D. Signal Rate

Question No:186 **(Marks:1)** **Vu-Topper RM**

Two or more computers connected so that they can communicate with each other and share information is called a _____.

A. Satellite

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B. Protocol
C. Network
D. Broadcast

Question No:187 **(Marks:1)** **Vu-Topper RM**
Analog refers to something that is continuous in _____.
A. Time
B. Both
C. Space Frequency
D. None of the given

Question No:188 **(Marks:1)** **Vu-Topper RM**
What is the frequency of a sine wave if it completes one cycle in 5 seconds?
A. 0.5
B. 0.6
C. 0.3
D. 0.2

Question No:189 **(Marks:1)** **Vu-Topper RM**
In an analog hierarchy to carry voice channels, a group can carry _____ voice channels.
A. 60
B. 12
C. 25
D. 20

Question No:190 **(Marks:1)** **Vu-Topper RM**
In Synchronous TDM, Time slots are not same in number as input devices.
True
False

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Question No:191 **(Marks:1)** **Vu-Topper RM**

In _____ a dedicated communication path is established between two stations through the nodes of the network

Circuit switching

Packet switching

Question No:192 **(Marks:1)** **Vu-Topper RM**

STP is more expensive than UTP and is less susceptible to noise.

True

False

Question No:193 **(Marks:1)** **Vu-Topper RM**

Like Data link layer, _____ is also responsible for Flow control.

Session Layer

Transport Layer

Question No:194 **(Marks:1)** **Vu-Topper RM**

Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching

True

False

Question No:195 **(Marks:1)** **Vu-Topper RM**

Is there any difference between Data communication and telecommunication are network?

Yes

No

Question No:196 **(Marks:1)** **Vu-Topper RM**

In ASK correct formula for calculating the bandwidth ia as _____.

B=(1+d)S

B=(1*d)S

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Question No:197 **(Marks:1)** **Vu-Topper RM**
TROPOSHERE is the layer of atmosphere above the troposhere but below space
True
False

Question No:198 **(Marks:1)** **Vu-Topper RM**
_____ is normally used where speed is priority in data transfer.
Serial data transmission

Question No:199 **(Marks:1)** **Vu-Topper RM**
In _____ type of error, two or more bits in the data unit will be changed.
burst error

Question No:200 **(Marks:1)** **Vu-Topper RM**
Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user.
FDM

Question No:201 **(Marks:1)** **Vu-Topper RM**
PSK is susceptible to the noise degradation.
True
False

Question No:202 **(Marks:1)** **Vu-Topper RM**
A personal computer or workstation on an Ethernet network must have ___-------- card
NIC

Vu Topper RM

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Question No:203 **(Marks:1)** **Vu-Topper RM**
In the context of Ethernet address, the source address is always a -- address
Multicast

Question No:204 **(Marks:1)** **Vu-Topper RM**
In Ethernet, the source address field in the MAC frame is the _ address
Previous station physical

Question No:205 **(Marks:1)** **Vu-Topper RM**
In each character protocol each character of frame is encoded using ____ coding system .
Bit-oriented

Question No:206 **(Marks:1)** **Vu-Topper RM**
In _____ collision are avoided by deferring transmission even if the channel is idle
The interframe space

Question No:207 **(Marks:1)** **Vu-Topper RM**
_---------uses fiber-optic cable
10base-F

Question No:208 **(Marks:1)** **Vu-Topper RM**
Mac address is of _____
48 bits

Question No:209 **(Marks:1)** **Vu-Topper RM**
SONET stands for
Synchronous optical network

Vu Topper RM

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Question No:210 **(Marks:1)** **Vu-Topper RM**
In hexadecimal notation of Ethernet address, each byte is separated by ---------- symbol.
Colon

Question No:211 **(Marks:1)** **Vu-Topper RM**
In order to find the location of two errors in an eight-bit stream, we have to see _____ different combinations.
28

Question No:212 **(Marks:1)** **Vu-Topper RM**
In a linear block code, the _____ of any two valid codewords creates another valid codeword.
XOR

Question No:213 **(Marks:1)** **Vu-Topper RM**
The original Ethernet technology with the data rate of 10 MBps is called_____?
Standard Ethernet

Question No:214 **(Marks:1)** **Vu-Topper RM**
POTS stand for _?
Plain old telephone system

Question No:215 **(Marks:1)** **Vu-Topper RM**
In the context of Ethernet address, the destination address is always a _____ address.
Unicast, multicast, broadcast

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Question No:216 **(Marks:1)** **Vu-Topper RM**
If the harming distance between sent and received code word is _____ then it shows that received data is corrupted.
Is not equal to0

Question No:217 **(Marks:1)** **Vu-Topper RM**
What was the main drawback in the aloha random access method-----
Redundancy in data

Question No:218 **(Marks:1)** **Vu-Topper RM**
In telephone, network POP stands for
Point-of presence

Question No:219 **(Marks:1)** **Vu-Topper RM**
Transmission technology based on Ethernet provides a data rate of 1 billion bits per second.
Standard Ethernet

Question No:220 **(Marks:1)** **Vu-Topper RM**
In pure aloha the vulnerable time is ___ the frame transmission time
Two times

Question No:221 **(Marks:1)** **Vu-Topper RM**
The original Ethernet technology with the data rate of 10 Mbps is called
Standard ethernet

Question No:222 **(Marks:1)** **Vu-Topper RM**
Which of the following is a correct controlled access method?
All options

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Question No:223 **(Marks:1)** **Vu-Topper RM**
In telephone, network POP stands for _____.
Point of presence

Question No:224 **(Marks:1)** **Vu-Topper RM**
What was the main drawback in the aloha random access method?
Redundancy data rate

Question No:225 **(Marks:1)** **Vu-Topper RM**
By using------system, change in the file contents during file transmission can be avoided.
Error Detection and Correction

Question No:226 **(Marks:1)** **Vu-Topper RM**
Baud rate is greater than or equal to the bit rate.
True
False

Question No:227 **(Marks:1)** **Vu-Topper RM**
The level of signal is always positive in NRZ encoding.
True
False

Question No:228 **(Marks:1)** **Vu-Topper RM**
Session layer is responsible for _____.
Reassembly of data
Maintaining the connection

Question No:229 **(Marks:1)** **Vu-Topper RM**
The Internet is---------.
A global network of computers networks

Vu Topper RM

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Cs601 Quiz 1 2022 By Sir Afzal



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Question # 1 of 10 (Start time: 06:46:18 PM, 05 January 2022) **Total Marks: 1**

In star based network comprising of four computers and one switch, total number of cables needed will be_____.

Select the correct option

○	3
○	4
◉	5
○	6

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Question # 2 of 10 (Start time: 06:47:52 PM, 05 January 2022)

Polar encoding scheme uses _____ voltage level.

Select the correct option

- (●) 2
- ( ) 1
- ( ) 3
- ( ) 0

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Question # 6 of 10 (Start time: 06:52:24 PM, 05 January 2022) **Total Mar**

A common Bipolar encoding scheme is called _____.

Select the correct option

- (●) AMI
- ( ) NRZ
- ( ) RZ
- ( ) QAM

Click to Save Answer & Move to Next Question

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Question # 10 of 10 (Start time: 07:12:14 PM, 05 January 2022)

Datagram (packet) travels across _____ in a network.

Select the correct option

◉	Routers
○	Hub
○	Switches
○	Modem

Click to Sav

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Question # 2 of 10 (Start time: 07:01:21 PM, 05 January 2022)
Total Marks: 1

AMI is a popular _____ encoding method.

Select the correct option

- ○ Uni-polar
- ○ Substitution
- ○ Polar
- ○ Bi-polar

Click to Save Answer & Move to Next Question

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CS601 - Data Communication (Quiz 1)

Question # 8 of 10 (Start time: 06:55:27 PM, 05 January 2022)

OSI stands for _____.

Select the correct option

○	Open Source Interconnection
◉	Open System Interconnection
○	Open Standard Interconnection
○	Open System Interface

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AMI is a popular _____ encoding method.

Select the correct option

○	Uni-polar
○	Substitution
○	Polar
◉	Bi-polar

Click to Save Ans

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Question # 9 of 10 (Start time: 06:56:40 PM, 05 January 2022)

Parabolic antenna is used for_____ communication.

Select the correct option

○	Light wave
○	Radio waves
○	Infrared waves
◉	Microwave

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CS601 - Data Communication (Quiz 1)

Question # 10 of 10 (Start time: 06:57:56 PM, 05 January 2022)

TCP/IP protocol suite has _____ layers.

Select the correct option

○	4
○	7
○	6
◉	5

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Question # 3 of 10 (Start time: 06:49:22 PM, 05 January 2022) **Total Marks: 1**

_____ is a type of serial transmission in which timing of Signal is unimportant as information received is agreed upon certain agreements between sender and receiver.

Select the correct option

○	Isochronous
○	Asynchronous
○	Metasochronous
◉	Synchronous

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AMI is a popular _____ encoding method.

Select the correct option

○	Uni-polar
○	Substitution
○	Polar
◉	Bi-polar

Click to Save Ans

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Question # 10 of 10 (Start time: 07:12:14 PM, 05 January 2022)

Datagram (packet) travels across _____ in a network.

Select the correct option

◉	Routers
○	Hub
○	Switches
○	Modem

Click to Sav

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Question # 2 of 10 (Start time: 07:01:21 PM, 05 January 2022)
Total Marks: 1

AMI is a popular _____ encoding method.

Select the correct option

- ○ Uni-polar
- ○ Substitution
- ○ Polar
- ○ Bi-polar

Click to Save Answer & Move to Next Question

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Data Communication (CS601)

Multiple Choice Questions (MCQs)

1. **Error correction is more _____ than the error detection.**

    1. Easy
    2. Useless
    3. Informal
    4. **Difficult**

2. **Analog To Analog Conversion Methods include _____.**

    1. AM, PM and FM
    2. AM, FSK and PM
    3. AM, PM and QAM
    4. None of the given

3. **Which of the following is not a characteristic of a sine wave?**

    1. Amplitude
    2. Segmentation
    3. Phase
    4. Frequency

4. **The transmission medium that carries the message is referred to as the _____.**

    1. send and receive device
    2. communication channel
    3. protocol
    4. gateways

5. **If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.**

1. ≠ 0
2. = 0
3. ≠ 1
4. = 1

6. **Two or more computers connected so that they can communicate with each other and share information is called a _____.**

    1. satellite
    2. protocol
    3. broadcast
    4. network

7. **In Pure ALOHA, the vulnerable time is _____ the frame transmission time.**

    1. Same as
    2. Two times
    3. Three times
    4. Four times

8. **Line Configuration refers to the way two or more devices attach to a _____.**

    1. Path
    2. Circuit
    3. Link
    4. Router

9. **Which one is not the function of data link layer?**

    1. Line discipline
    2. Flow control
    3. Error control
    4. Network control

10. **In analog transmission, the base signal is called the_____.**

    1. Carrier Signal

2. Analog signal
3. Digital signal
4. Modulated signal

11. _____ mode of serial transmission guarantees fixed rate of data.

1. Synchronous
2. Asynchronous
3. Isochronous
4. Metasochronous

12. In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____.

1. Encapulation
2. De-encapulation
3. Packetizing
4. Framing

13. To make sure that source does not overwhelm destination by sending data faster than it can be handled and processed is called?

1. Addressing & Routing
2. Exchange Management
3. Flow Control
4. Recovery

14. S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

1. User data
2. Control
3. Redundant
4. Original

15. Radio wave transmission utilizes _____ different types of propagation.

1. Two

2. Three
3. Four
4. Five

16. Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

1. Large
2. Small
3. Medium
4. Zero

17. Like Data link layer, _____ is also responsible for Flow control.

1. Transport Layer
2. Session Layer

18. Error detection and correction are the services provided by _____ layer.

1. Data link layer
2. Application layer
3. Physical layer
4. Session layer

19. Sampling means measuring _____ of signal at equal intervals

1. Amplitudes
2. Frequencies
3. Phases
4. None of the given

20. There are _____ basic categories of multiplexing.

1. 2
2. 3
3. 7
4. 5

21. In an analog hierarchy to carry voice channels, a group can carry _____ voice channels.

1. 60
2. 12
3. 20
4. 10

22. _____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.

1. Frame sequencing
2. Acknowledgement numbering
3. Counter and Timer reset
4. Frame sequencing and Acknowledgement numbering

23. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 300, 600, 900 and 1200?

1. 100
2. 900
3. 300
4. 600

24. What is the period of a Sine wave having frequency of 2 Hz?

1. 0.2
2. 0.1
3. 0.5
4. 0.3

25. DLC in Data Link Layer stands for _____.

1. Divide Line Communication
2. Data Line Code
3. Data Link Control
4. Demand Link Coordination

26. CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

1. Two-way
2. Three-way
3. Four-way
4. Five-way

27. _____ category of coaxial cable is used for thin Ethernet.

1. RG-58
2. RG-59
3. RG-1
4. RG-47

28. The logical connection between the peer layers is _____ connection.

1. Physical
2. Direct
3. Indirect
4. Tengible

29. In frequency shift keying, _____ remain(s) constant.

1. Frequency
2. Amplitude
3. Both Amplitude and Phase
4. Both Phase and Frequency

30. Which of the following sublyer resolves the contention for the shared media.

1. MAC
2. LLC
3. Physical
4. None of the given.

31. Session layer is responsible for _____.

1. Reassembly of data
2. Maintaining the connection

32. The original Ethernet technology with the data rate of 10 Mbps is called _____?

1. Standard Ethernet
2. Fast Ethernet
3. Gigabit Ethernet
4. 10 Gigabit Ethernet

33. Collisions in CSMA/CA are avoided through _____.

1. The Interframe Space
2. The Contention Window
3. Acknowledgements
4. All of the given

34. Checksum is an error-detection technique that can be applied to a message of _____ length.

1. Exactly 4
2. Exactly 8
3. Exactly 32
4. Any

35. Time division multiplexing is used in _____ systems.

1. Analog
2. Hybrid
3. Digital
4. Automated

36. Low pass channel has _____ bandwidth between two stations.

1. Dedicated
2. Shared
3. Multiplexed
4. Infinite

37. In OSI model headers are added at layer _____.

1. 1,2,3 only
2. 6,5,7 only
3. 5,4,3 only
4. 6,5,4,3,2 only

38. _____ relatively measures the strength of two signals.

1. Signal rate
2. Bit rate
3. Decibel
4. Pulse Rate

39. The Internet is _____.

1. software for sending e-mail around the world
2. a government-owned agency that links computers
3. a global network of computers networks
4. a specialised form of local area network

40. In CRC there is no error if the remainder at the receiver is _____.

1. Equal to the remainder at the sender
2. Zero
3. Nonzero
4. The quotient at the sender

41. By using _____ system, change in the file contents during file transmission can be avoided.

1. Routing
2. Flow Control
3. Error Detection and Correction
4. Congestion Control

42. The _____ protocol uses both flow and error control.

1. TCP/IP
2. HDLC
3. ICMP

4. Stop-and-Wait

43. What is the period of a Sine wave having frequency of 5 Hz?

1. 0.2
2. 0.1
3. 0.5
4. 0.3

44. The level of signal is always positive in NRZ encoding.

1. true
2. false

45. _____ is responsible for governing node to node communication.

1. Application Layer
2. Session Layer
3. Data Link layer
4. Presentation Layer

46. In _____ a dedicated communication path is established between two stations through the nodes of the network

1. Circuit switching
2. Packet switching

47. Which of the following statement is correct?

1. Digital signals are less prone to Noise
2. Digital signals are highly prone to Noise
3. Analog Signals are less prone to Noise
4. Digital signals are not affected by Noise

48. _____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

1. N+1

2. N-1
3. N(N+1)
4. NxN

49. In _____, both peak amplitude and frequency remains constant as the phase changes.

1. PSK
2. QAM
3. Both PSK & QAM
4. None of the given

50. Is there any difference between Data communication and telecommunication are network?

1. Yes
2. No

51. Each computer on the Internet has a unique numeric address called a(n) _____.

1. domain address
2. protocol address
3. IP address
4. Web address

52. TROPOSHERE is the layer of atmosphere above the troposhere but below space

1. True
2. False

53. VCI address is _____ address in virtual circuit approach.

1. Private
2. Variable
3. Local
4. Global

54. AM signal requires _____ the BW of original signal

1. Twice
2. Half
3. Same
4. Three Times

55. What is the frequency of a sine wave if it completes one cycle in 5 seconds?

1. 0.5
2. 0.6
3. 0.3
4. 0.2

56. In ASK, Noise usually affects the _____.

1. Amplitude
2. Phase
3. Sample
4. Frequency

57. Flow control is needed to prevent _____.

1. Bit errors
2. Overflow of the sender buffer
3. Overflow of the receiver buffer
4. Collision between sender and receiver

58. _____ are used to exchange session management and control information between connected devices.

1. I-frames
2. U-frames
3. S-frames
4. N-frames

59. Switch is a network device which operates on the _____ layer of the TCP/IP protocol suite.

1. Application
2. Transport
3. Presentation

4. Data link

60. _____ is an Authentication Protocol, which uses two-step process to authenticate user information.

1. CHAP
2. LCP
3. PAP
4. ICMP

61. _____ is the process of converting digital data to digital signals.

1. CSMA/CD
2. CSMA/CA
3. Line coding
4. Segmentation

62. _____ is not a function of Data Link Control.

1. Framing
2. Modulation
3. Error Control
4. Flow Control

63. PSK is susceptible to the noise degradation.

1. True
2. False

64. A _____ modem is used to connect two DTEs directly.

1. 'NULL
2. Cable
3. DSL
4. None of the given

65. Which of the following is most affected by noise?

1. PSK
2. ASK

3. FSK
4. QAM

66. Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.

1. FSK, PSK
2. PSK, FSK
3. ASK, PSK
4. ASK, FSK

67. YMODEM has _____ Byte of data unit.

1. 1024
2. 256
3. 128
4. 512

68. Analog refers to something that is continuous in _____.

1. Time
2. Space
3. Frequency
4. None of the given

69. The _____ is the number of signal elements sent per unit time.

1. Data rate
2. Signal rate
3. Bit rate
4. Period

70. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 200, 400, 600 and 800?

1. 100
2. 500
3. 300

4. 600

71. At the CRC generator, _____ added to the data unit before the divisional process.

1. 0s are
2. 1s are
3. a polynomial is
4. a CRC remainder is

72. What is the period of a Sine wave having frequency of 10 Hz?

1. 0.2
2. 0.1
3. 0.5
4. 0.3

73. A sine wave is _____.

1. periodic and discrete
2. aperiodic and discrete
3. periodic and continuous
4. aperiodic and continuous

74. WDM stands for _____.

1. Wave Division Multiplexing
2. Wrong Division Multiplexing
3. Well Division Multiplexing
4. West Division Multiplexing

75. _____ is sometimes called the bit rate.

1. signal rate
2. modulation rate
3. Data rate
4. pulse rate

76. In even parity check code, the value of syndrome is _____ if the number of 1s is even.

1. 1
2. 2
3. 0
4. 4

77. RZ stands for _____.

1. Return to Z
2. Retire a Zero
3. Return ot Zero
4. None of the given

78. A sine wave is defined by _____ characteristics.

1. 2
2. 3
3. 4
4. 5

79. A portion of the path that carries TX between a given pair of devices is known as _____.

1. Direct Point
2. Bridge
3. Channel
4. Access Point

80. _____ signal can take infinite levels of intensity over time.

1. Digital
2. Discrete
3. Analog
4. Logical

81. BSC supports _____ transmission using _____ flow control.

1. Full-duplex, Stop and wait ARQ
2. Half-duplex, Selective reject ARQ
3. Full-duplex, Selective reject ARQ

4. Half-duplex, Stop and wait ARQ

82. The _____ generates the data and passes it along with any control information to a _____.

1. DTE, DCE
2. DCE, DTE
3. DTE, DTE
4. DCE, DCE

83. dB is negative if a signal is _____.

1. Attenuated
2. Distorted
3. Amplified
4. Noisy

84. If a digital signal has "L" number of levels. _____ is the number of bits required to represent each level.

1. Log L
2. Log Base 2 L
3. L Square
4. Log(2*L)

85. In selective-reject ARQ, only the specific damaged or lost frame is _____.

1. Retransmitted
2. Forwarded
3. Selected
4. Rejected

86. Asynchronous transmission is _____.

1. Slow
2. Fast
3. Costly
4. None effective

87. Congestion Control is a feature of layer(s).

1. Data Link
2. Network
3. Transport
4. All mentioned

88. GO-BACK-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

1. Physical
2. Network
3. Presentation
4. Data link

89. Signals travel through fiber optic cable are in the form of _____.

1. Light
2. Bits
3. Electromagnetic
4. Bytes

90. _____ encoding is almost obsolete today

1. Bipolar
2. Unipolar
3. Polar
4. None of the given

91. Terminal, microprocessor, computer, printer or any other device that generates or consumes digital data is known as _____

1. DCE
2. DTE
3. DCE & DTE
4. None of the given

92. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

1. Duplicated
2. Blocked
3. Cleaned
4. Escaped

93. Radio is an example of _____ signal conversion.

1. Analog to analog
2. Analog to digital
3. Digital to Digital
4. Digital to analog

94. There are three types of Hubs that exist. Which of the following options correctly describes these three?

1. Passive, dormant, special
2. Active , dormant , passive
3. Passive, Active, Turbo
4. Passive, Active, Intelligent

95. The most common type of connector used by coaxial cable is _____.

1. BNC
2. RJ-45
3. RJ-11
4. RJ-57

96. WDM stands for _____.

1. Wideband De-Modulation
2. Worst Data Manipulation
3. Wavelength Division Multiplexing
4. None of the given

97. STP is more expensive than UTP and is less susceptible to noise.

1. True
2. False

98. In statistical time division multiplexing, number of slots in frame are less than _____.

1. Output data rate
2. Input lines
3. Input frequency
4. Multiplexed T lines

99. Human voice is example of _____ signal.

1. Digital
2. Analog
3. Discrete
4. None of the given

100. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____.

1. Virtual LANs
2. Two adjacent nodes
3. Ethernet links
4. Source and destination PCs

101. Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user.

1. PDM
2. CSMA
3. TDM
4. FDM

102. There are _____types of guided media.

1. 2
2. 3
3. 4
4. 5

103. Encoding digital data into digital signals is called _____.

1. Analog-to-Digital Conversion
2. Digital-to-Digital Conversion
3. Digital-to-Analog Conversion
4. None of the given

104. Baud rate is greater than or equal to the bit rate.

1. True
2. False

105. Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

1. Checksum
2. Cyclic Redundancy Check (CRC)
3. Longitudinal Red Check (LRC)
4. Vertical Redundancy Check (VRC)

106. A fiber -optic cable transmit signals in the form of _____.

1. Light
2. Sound
3. Wave
4. None of the given

107. A broadcast signal is received by the orbiting satellites which rebroadcasts _____.

1. to the resender
2. to the sender
3. to the atmosphere
4. none of the given

108. Latency is made of _____ components.

1. Two

2. Three
3. Four
4. Five

109. If users must take turns using the link, then it is called Spatial Sharing.

1. true
2. false

110. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

1. Duplicated
2. Blocked
3. Cleaned
4. Escaped

111. In ASK correct formula for calculating the bandwidth ia as _____.

1. B=(1+d)S
2. B=(1*d)S
3. B=(d-1)S
4. B=(d-5)S

112. In Pulse Code Modulation (PCM), the sampling is dependent on _____.

1. Time
2. Amplitude
3. Frequency
4. Signal Rate

113. We can have _____ different groups with a 4 bit block.

1. 4
2. 8
3. 16
4. 32

114. To calculate the data rate for noisy channel _____ formula is used.

1. Shannon
2. Nyquist
3. Propagation
4. Greedy

115. Central Hub in a Tree is an _____.

1. Active hub
2. passive hub

116. In Block coding scheme, number of code words is always _____ data words.

1. Less than
2. Equal to
3. Greater than
4. Same as

117. The extra bits added with the original data for error detection/correction are called _____.

1. Fault bits
2. Port numbers
3. Redundant bits
4. Process IDs

118. In circuit switched networks we have low efficiency but minimal _____.

1. Delay
2. Speed
3. Throughput
4. Errors

119. If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations.

1. 16

2. 2
3. 4
4. 8

120. Time domain shows changes in _____.

1. time w.r.t signal amplitude
2. signal amplitude w.r.t time
3. time
4. All of the given

121. The message 1110 sent by a source is received by a destination as 1011. This is _____ type of error.

1. Burst
2. Single-Bit
3. Uni-Bit
4. Hamming

122. In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

1. 28
2. 16
3. 8
4. 4

123. Which layer is concerned with the syntax and semantics of info exchange between two systems?

1. Physical
2. Application
3. Session
4. Presentation

124. _____ is the rate of change with respect to time.

1. Voltage
2. Time

3. Frequency
4. Amplitude

125. _____ is an Authentication Protocol, which is used by the PPP to authenticate passwords.

1. CHAP
2. PAP
3. LCP
4. ICMP

126. The term _____means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

1. Packet Error
2. Burst Error
3. Single Bit Error
4. Character Error

127. Digital signals are refered to be _____.

1. Continuous
2. Discrete
3. All of the given
4. None of the given

128. If the window size is 63 in go-back N ARQ then what is the range of sequence number?

1. 0 to 63
2. 0 to 64
3. 1 to 63
4. 1 to 64

129. In Block coding we divide our message into blocks of k bits called as _____.

1. Code words
2. Data words
3. Passwords
4. Cross words

130. Data is transmitted using light through a _____ cable.

1. twisted pair
2. fiber-optic
3. coaxial
4. microwave

131. If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

1. Constant
2. More
3. Less
4. Zero

132. Digitizing an Analog Signal is called _____.

1. Analog-to-Digital Conversion
2. Digital-to-Digital Conversion
3. Digital-to-Analog Conversion
4. None of the given

133. _____ category of coaxial cable is used for Cable TV.

1. RG-58
2. RG-59
3. RG-11
4. RG-47

134. Which of the following consist of just one redundant bit per data unit?

1. Two dimentional Parity check.
2. CRC
3. Simple Parity Check
4. Checksum

135. Quantization is a method of assigning _____ values in a specific range to sampled instances.

1. Negative
2. Positive
3. Binary
4. Integral

136. _____ of a signal is the collection of all the component frequencies it contains.

1. Time domain
2. Frequency domain
3. Frequency spectrum
4. None of the given

137. The logical connection between the peer layers is _____ connection.

1. Physical
2. Direct
3. Indirect
4. Tangible

138. In ASK, both _____ and _____ remain constant.

1. Amplitude, Frequency
2. Amplitude, phase
3. Frequency, Phase
4. Amplitude, Samples

139. _____ contains a repeater.

1. Active hub
2. Passive hub

140. In line discipline after the data transmission, the sending system finishes with an _____ frame.

1. EOT

2. EKT
3. ENT
4. ESP

141. In Synchronous TDM, Time slots are not same in number as input devices.

1. True
2. False

142. Which error detection method uses one's complement arithmetic.

1. Cyclic Redundancy Check (CRC)
2. Longitudinal Red Check (LRC)
3. Checksum
4. Simple Parity Check

143. To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

1. Physical
2. Network
3. Presentation
4. Data link

144. Which level of the TCP/IP reference model routes data/information across a network channel?

1. Application Layer
2. Data Link Layer
3. Transport Layer
4. Network Layer

145. Following characteristics fully describe _____,
Amplitude
Period/Frequency
Phase

1. Sine Waves

2. Digital Signals
3. Aperiodic Signals
4. None of the given

146. Time domain plot show changes in signal phase with respect to time.

1. true
2. false

147. Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

1. Local Area Network
2. Metropolitan Area Network
3. Wide Area Network
4. Home Based Network

148. Analog signals are refers to be _____

1. Continuous
2. Discrete
3. Periodic
4. Aperiodic

149. The inversion of the level at 1 bit is called as _____.

1. NRZ-L
2. NRZ-I
3. RZ
4. None of the given.

150. The inversion of the level represents a 1 bit in _____ encoding

1. NRZ-I
2. NRZ-L
3. RZ
4. Manchester

151. At the CRC checker, _____ means that the data unit is damaged.

1. A string of 0s
2. A string of 1s
3. A string of alternating 1s and 0s
4. A nonzero remainder

152. Like 10 Base 5, 10 Base 2 is a _____ topology LAN.

1. Ring
2. Mesh
3. Star
4. Bus

153. There are _____ types of serial transmission.

1. 3
2. 4
3. 2
4. None of the given

154. In _____, a signal is directed straight from antenna to antenna.

1. Line of sight propagation
2. Ground propagation
3. Space propagation
4. Tropospheric propagation

155. In the encoding where positive to negative transition is one and vice versa is zero.

1. Manchester
2. Differential Manchester
3. All of the given
4. None of given

156. _____ is normally used where speed is priority in data transfer.

1. Serial data transmission
2. Hybrid data transmission
3. Parallel data transmission
4. Both parallel and serial data transmission

157. Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching

1. true
2. false

158. What is the frequency of a sine wave if it completes one cycle in 2 seconds?

1. 0.5
2. 0.6
3. 0.3
4. 0.2

159. Data Link layer provides services to the _____ layer.

1. Application
2. Transport
3. Network
4. Session

160. At the Application layer, object/information is in the form of _____.

1. Message
2. Packet
3. Segment
4. Frame

1.If the ASCII character H is sent the character I iis received the type of error is occurred

Single bi

2.At the CRC generator added to the data unit before the division process

A polynomial is

3.At the CRC checker means that the data unit is not damaged

Anonzero remindedr

4.IEE divided the baseband category in to standards

5

5.bandwidth required for equal to the band rate of the signal

ASK

6. At the beginning of transmission the receiver windows contains space for frame is sliding window mechanism

n-1

7.one multi station Access unit can support up tmin to station

8

8. A fiber optic signal are transmitted in the form of

Light

9.BNC connectors are used by cables

Coaxial

10. Measure the relative strength of the two signals or a signal at two different at two different point

Decibel

11.The very low frequency VLFand low frequency LF band used propagation for communication

Surface

12.An authorized access over a network is issue

Security

13. The hamming code is used for

Detection and correction of error

14.FDDI THT stands for

Token holding time

15.in fast ethernet the maximum supported data rate is

100Mbps

16.RARP stands for

Reverse Adress Resolution protocol

17. A telephone network is a example of network

Circuit switched

18. Bridge can decided a large in to smaller signal

Network

19. The rate of T-1 is

1.544Mbps

20 FTTc to the stand for

Fiber to the curb

21.in the process of CRC has not any importance is not attached with data at sender receiver size

Quotient

22. If CRC there is no error at the receiver size is

Zero

23. In the process of CRC quotient at the sender

Ignored

24. According to odd parity for error detection if the number of 1 s the data segment are then 0 number is attached

Even

WWW.VIRTUALINSPIRE.COM

Correct Option : 2 From : Lecture 16
MCQS Printed From Vulhr.com, Come Visit and Upgrade You Knowledge
Question # 40

One factor in the accuracy of a reconstructed PCM signal is the _____.

1) : Number of bits used for quantization
2) : Signal bandwidth
3) : Carrier frequency
4) : Baud rate

Correct Option : 1 From : Lecture 16
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Question # 41

In PCM, an analog-to- _____ conversion occurs.

1) : Analog
2) : Digital
3) : QAM
4) : Differential

Correct Option : 2 From : Lecture 16
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Question # 42

If the maximum value of a PCM signal is 31 and the minimum value is -31, how many bits were used for coding?

1) : 4
2) : 5
3) : 6
4) : 7

Correct Option : 3 From : Lecture 16
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Question # 43

Which quantization level results in a more faithful reproduction of the signal?

1) : 2
2) : 8
3) : 16
4) : 32

Correct Option : 4 From : Lecture 16
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Question # 44

In _____ transmission, bits are transmitted over a single wire, one at a time.

1) : Asynchronous serial
2) : Synchronous serial
3) : Parallel
4) : (a) and (b)

Correct Option : 4 From : Lecture 17
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Question # 45

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In _____ transmission, a start bit and a stop bit frame a character byte.

1) : Synchronous serial
2) : Asynchronous serial
3) : Parallel
4) : (a) and (b)

Correct Option : 2 From : Lecture 17

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Question # 46

If a symbol is composed of 3 bits, there are _____ data levels.

1) : 2
2) : 4
3) : 8
4) : 16

Correct Option : 3 From : Lecture 17

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Question # 47

The Nyquist theorem specifies the minimum sampling rate to be_____.

1) : Twice the bandwidth of a signal
2) : Twice the highest frequency of a signal
3) : Equal to the lowest frequency of a signal
4) : Equal to the highest frequency of a signal

Correct Option : 2 From : Lecture 17

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Question # 48

Pulse rate is always _____ the bit rate.

1) : Less than
2) : Less than or equal to
3) : Greater than
4) : Greater than or equal to

Correct Option : 2 From : Lecture 17

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Question # 49

ASK, PSK, FSK, and QAM are examples of _____ conversion.

1) : digital-to-digital
2) : digital-to-analog
3) : analog-to-analog
4) : analog-to-digital

Correct Option : 2 From : Lecture 17

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Question # 50

In QAM, both _____ of a carrier frequency are varied.

1) : frequency and amplitude
2) : phase and frequency
3) : amplitude and phase
4) : none of the above

Correct Option : 3 From : Lecture 17

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Question # 51

If the baud rate is 400 for a QPSK signal, the bit rate is _____ bps.

1) : 100
2) : 400
3) : 800
4) : 1600

Correct Option : 3 From : Lecture 17

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Question # 52

If the bit rate for an ASK signal is 1200 bps, the baud rate is _____.

1) : 300
2) : 400
3) : 600
4) : 1200

Correct Option : 4 From : Lecture 17

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Question # 53

If the bit rate for an FSK signal is 1200 bps, the baud rate is _____.

1) : 300
2) : 400
3) : 600
4) : 1200

Correct Option : 4 From : Lecture 17

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Question # 54

If the bit rate for a 16-QAM signal is 4000 bps, what is the baud rate?

1) : 300
2) : 400
3) : 1000
4) : 1200

Correct Option : 4 From : Lecture 17

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Question # 55

If the baud rate for a 64-QAM signal is 2000, what is the bit rate?

1) : 300
2) : 400
3) : 1000
4) : 12000

Correct Option : 3 From : Lecture 17

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Question # 56

Quadrature amplitude modulation (QAM) is a combination of _____.

1) : ASK and FSK
2) : ASK and PSK
3) : PSK and FSK

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4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 57

_____ uses two carriers, one in-phase and the other quadrature.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 4 From : Lecture 17

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Question # 58

Analog-to-analog conversion is needed if the available bandwidth is _____.

1) : low-pass
2) : band-pass
3) : either (a) or (b)
4) : neither (a) nor (b)

Correct Option : 2 From : Lecture 17

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Question # 59

Which of the following is not an analog-to-analog conversion?

1) : AM
2) : PM
3) : FM
4) : QAM

Correct Option : 4 From : Lecture 17

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Question # 60

In _____ transmission, the carrier signal is modulated so that its amplitude varies with the changing amplitudes of the modulating signal.

1) : AM
2) : PM
3) : FM
4) : none of the above

Correct Option : 1 From : Lecture 17

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Question # 61

In _____ transmission, the frequency of the carrier signal is modulated to follow the changing voltage level (amplitude) of the modulating signal. The peak amplitude and phase of the carrier signal remain constant, but as the amplitude of the information signal changes, the frequency of the carrier changes correspondingly.

1) : AM
2) : PM
3) : FM
4) : none of the above

Correct Option : 3 From : Lecture 17

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Question # 62

In _____ transmission, the phase of the carrier signal is modulated to follow the changing voltage level (amplitude) of the modulating signal.

1) : AM
2) : PM
3) : FM
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 63

In _____, the peak amplitude of one signal level is 0; the other is the same as the amplitude of the carrier frequency.

1) : PSK
2) : OOK
3) : FSK
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 64

The constellation diagram of 16-QAM has _____ dots.

1) : 4
2) : 16
3) : 8
4) : none of the above

Correct Option : 3 From : Lecture 17

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Question # 65

The Federal Communications Commission (FCC) allows _____kHz for each AM station.

1) : 5
2) : 10
3) : 20
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 66

The Federal Communications Commission (FCC) allows _____ kHz for each FM station.

1) : 20
2) : 100
3) : 200
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 67

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Which of the following is not a digital-to-analog conversion?

1) : ASK
2) : PSK
3) : FSK
4) : AM

Correct Option : 4 From : Lecture 18

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Question # 68

In _____, the amplitude of the carrier signal is varied to create signal elements. Both frequency and phase remain constant.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 1 From : Lecture 18

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Question # 69

In _____, the frequency of the carrier signal is varied to represent data. Both peak amplitude and phase remain constant.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 3 From : Lecture 18

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Question # 70

In _____, the phase of the carrier is varied to represent two or more different signal elements. Both peak amplitude and frequency remain constant.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 2 From : Lecture 18

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Question # 71

A constellation diagram shows us the _____ of a signal element, particularly when we are using two carriers (one in-phase and one quadrature).

1) : amplitude and phase
2) : amplitude and frequency
3) : frequency and phase
4) : none of the above

Correct Option : 1 From : Lecture 18

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Question # 72

_____ conversion is the representation of analog information by an analog signal.

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1) : Digital-to-analog
2) : Analog-to-analog
3) : Analog-to-digital
4) : Digital-to-digital

Correct Option : 2 From : Lecture 18

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Question # 73

AM and FM are examples of _____ conversion.

1) : digital-to-digital
2) : digital-to-analog
3) : analog-to-analog
4) : analog-to-digital

Correct Option : 3 From : Lecture 19

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Question # 74

Given an AM radio signal with a bandwidth of 10 KHz and the highest-frequency component at 705 KHz, what is the frequency of the carrier signal?

1) : 700 KHz
2) : 705 KHz
3) : 710 KHz
4) : Cannot be determined from given information

Correct Option : 1 From : Lecture 19

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Question # 75

If the available channel is a ____ channel, we cannot send a digital signal directly to the channel.

1) : low-pass
2) : bandpass
3) : low rate
4) : high rate

Correct Option : 2 From : Lecture 20

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Question # 76

For a _____ channel, the Nyquist bit rate formula defines the theoretical maximum bit rate.

1) : noisy
2) : noiseless
3) : bandpass
4) : low-pass

Correct Option : 2 From : Lecture 20

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Question # 77

For a _____ channel, we need to use the Shannon capacity to find the maximum bit rate.

1) : noisy
2) : noiseless

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3) : bandpass
4) : low-pass
Correct Option : 1 From : Lecture 20
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Question # 1
Data communication is the exchange of information one entity to other using a Transmission_____.
1) : Protocol
2) : Medium
3) : Signal
4) : All the above
Correct Option : 2 From : Lecture 1
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Question # 2
The _____ is the physical path over which a message travels.
1) : Protocol
2) : Medium
3) : Signal
4) : All the above
Correct Option : 2 From : Lecture 1
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Question # 3
The information to be communicated in a data communications system is the _____.
1) : Medium
2) : Protocol

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3) : Message
4) : Transmission
Correct Option : 3 From : Lecture 1
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Question # 4
Medium twisted wire have speed to transform the information _____
1) : 300bps-10Mbps
2) : 256Kbps-100Mbps
3) : 56Kbps-200Mbps
4) : 500Kbps-10Gbps
Correct Option : 1 From : Lecture 1
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Question # 5
Medium Microwave have speed to transform the information _____
1) : 300bps-10Mbps
2) : 256Kbps-100Mbps
3) : 56Kbps-200Mbps
4) : 500Kbps-10Gbps
Correct Option : 2 From : Lecture 1
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Question # 6
Medium Coaxial Cable have speed to transform the information _____
1) : 300bps-10Mbps
2) : 256Kbps-100Mbps
3) : 56Kbps-200Mbps
4) : 500Kbps-10Gbps
Correct Option : 3 From : Lecture 1
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Question # 7
Medium Fiber Optic Cable have speed to transform the information _____
1) : 300bps-10Mbps
2) : 256Kbps-100Mbps
3) : 56Kbps-200Mbps
4) : 500Kbps-10Gbps
Correct Option : 4 From : Lecture 1
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Question # 8
A set of rules that govern on the flow of Data/information in a communication System is called_____
1) : Protocol
2) : Medium
3) : Signal
4) : Ring
Correct Option : 1 From : Lecture 1
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Question # 9

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_____is a Communication dialog between network users or applications.

1) : Session
2) : Node
3) : Protocol
4) : Medium

Correct Option : 1 From : Lecture 1

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Question # 10

Two or more devices connecting to each other to exchange the information is called _____

1) : Session
2) : Node
3) : Network
4) : Medium

Correct Option : 3 From : Lecture 1

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Question # 11

In a network each attached device is called _____

1) : Session
2) : Node
3) : Network
4) : Medium

Correct Option : 2 From : Lecture 1

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Question # 12

Mail services are available to network users through the _____ layer.

1) : Data link
2) : Physical
3) : Application
4) : Transport

Correct Option : 3 From : Lecture 10

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Question # 13

Which of the following is an application layer service?

1) : Remote log-in
2) : File transfer and access
3) : Mail service
4) : All the above

Correct Option : 4 From : Lecture 10

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Question # 14

Before data can be transmitted, they must be transformed to _____.

1) : periodic signals
2) : electromagnetic signals
3) : aperiodic signals
4) : low-frequency sine waves

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Correct Option : 2 From : Lecture 11

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Question # 15

A periodic signal completes one cycle in 0.001 s. What is the frequency?

1) : 1 Hz
2) : 100 Hz
3) : 1 KHz
4) : 1 MHz

Correct Option : 3 From : Lecture 11

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Question # 16

Given two sine waves A and B, if the frequency of A is twice that of B, then the period of B is _____ that of A.

1) : one-half
2) : twice
3) : the same as
4) : indeterminate from

Correct Option : 2 From : Lecture 11

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Question # 17

A sine wave is _____.

1) : periodic and continuous
2) : aperiodic and continuous
3) : periodic and discrete
4) : aperiodic and discrete

Correct Option : 1 From : Lecture 11

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Question # 18

If the maximum amplitude of a sine wave is 2 V, the minimum amplitude is _____ V.

1) : 2
2) : 1
3) : -2
4) : between -2 and 2

Correct Option : 3 From : Lecture 11

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Question # 19

Data can be _____.

1) : analog
2) : digital
3) : analog or digital
4) : none of the above

Correct Option : 3 From : Lecture 11

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Question # 20

_____ data are continuous and take continuous values.

1) : analog
2) : digital
3) : analog or digital
4) : none of the above
Correct Option : 1 From : Lecture 11
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Question # 21
_____ data have discrete states and take discrete values.
1) : analog
2) : digital
3) : analog or digital
4) : none of the above
Correct Option : 2 From : Lecture 11
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Question # 22
Signals can be _____.
1) : analog
2) : digital
3) : either analog or digital
4) : neither analog or digital
Correct Option : 3 From : Lecture 11
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Question # 23
_____ signals can have an infinite number of values in a range.
1) : analog
2) : digital
3) : analog or digital
4) : none of the above
Correct Option : 1 From : Lecture 11
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Question # 24
_____ signals can have only a limited number of values.
1) : analog
2) : digital
3) : analog or digital
4) : none of the above
Correct Option : 2 From : Lecture 11
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Question # 25
Frequency and period are _____.
1) : inverse of each other
2) : proportional to each other
3) : the same
4) : none of the above
Correct Option : 1 From : Lecture 11
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Question # 26

_____is the rate of change with respect to time.

1) : Amplitude
2) : Time
3) : Frequency
4) : Voltage

Correct Option : 3 From : Lecture 11

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Question # 27

_____ describes the position of the waveform relative to time 0.

1) : Frequency
2) : Phase
3) : Amplitude
4) : Voltage

Correct Option : 2 From : Lecture 11

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Question # 28

In a frequency-domain plot, the horizontal axis measures the _____.

1) : peak amplitude
2) : frequency
3) : phase
4) : slope

Correct Option : 2 From : Lecture 12

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Question # 29

In a time-domain plot, the horizontal axis is a measure of _____.

1) : signal amplitude
2) : frequency
3) : phase
4) : time

Correct Option : 4 From : Lecture 12

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Question # 30

A sine wave in the _____ domain can be represented by one single spike in the _____ domain.

1) : time; frequency
2) : frequency; time
3) : time; phase
4) : phase; time

Correct Option : 1 From : Lecture 12

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Question # 31

A _____ sine wave is not useful in data communications; we need to send a _____ signal.

1) : composite; single-frequency
2) : single-frequency; composite

3) : single-frequency; double-frequency
4) : none of the above
Correct Option : 2 From : Lecture 12
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Question # 32
The _____ of a composite signal is the difference between the highest and the lowest frequencies contained in that signal.
1) : frequency
2) : period
3) : bandwidth
4) : amplitude
Correct Option : 3 From : Lecture 12
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Question # 33
A(n)_____ signal is a composite analog signal with an infinite bandwidth.
1) : digital
2) : analog
3) : either analog or digital
4) : neither analog or digital
Correct Option : 1 From : Lecture 12
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Question # 34
Baseband transmission of a digital signal is possible only if we have a ____ channel.
1) : low-pass
2) : bandpass
3) : low rate
4) : high rate
Correct Option : 1 From : Lecture 12
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Question # 35
The _____ product defines the number of bits that can fill the link.
1) : bandwidth-period
2) : frequency-amplitude
3) : bandwidth-delay
4) : delay-amplitude
Correct Option : 2 From : Lecture 12
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Question # 36
If the bandwidth of a signal is 5 KHz and the lowest frequency is 52 KHz, what is the highest frequency?
1) : 5 KHz
2) : 10 KHz
3) : 10 KHz
4) : 57 KHz
Correct Option : 4 From : Lecture 13

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Question # 37

What is the bandwidth of a signal that ranges from 1 MHz to 4 MHz?

1) : 4 MHz
2) : 1 KHz
3) : 3 MHz
4) : none of the above

Correct Option : 3 From : Lecture 13

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Question # 38

As frequency increases, the period _____.

1) : decreases
2) : increases
3) : remains the same
4) : doubles

Correct Option : 1 From : Lecture 13

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Question # 39

A signal is measured at two different points. The power is P1 at the first point and P2 at the second point. The dB is 0. This means _____.

1) : P2 is zero
2) : P2 equals P1
3) : P2 is much larger than P1
4) : P2 is much smaller than P1

Correct Option : 2 From : Lecture 13

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Question # 40

If the frequency spectrum of a signal has a bandwidth of 500 Hz with the highest frequency at 600 Hz, what should be the sampling rate, according to the Nyquist theorem?

1) : 500 samples/s
2) : 1000 samples/s
3) : 200 samples/s
4) : 1200 samples/s

Correct Option : 4 From : Lecture 13

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Question # 41

Block coding can help in _____ at the receiver.

1) : Synchronization
2) : Error detection
3) : Attenuation
4) : (a) and (b)

Correct Option : 4 From : Lecture 14

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Question # 42

In _____ transmission, bits are transmitted simultaneously, each across its own

wire.

1) : Parallel
2) : Asynchronous serial
3) : Synchronous serial
4) : (a) and (b)

Correct Option : 1 From : Lecture 14

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Question # 43

Unipolar, bipolar, and polar encoding are types of _____ encoding.

1) : Block
2) : Line
3) : NRZ
4) : Manchester

Correct Option : 2 From : Lecture 14

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Question # 44

_____ encoding has a transition at the middle of each bit.

1) : RZ
2) : Manchester
3) : Differential Manchester
4) : All the above

Correct Option : 4 From : Lecture 14

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Question # 45

Which encoding type always has a nonzero average amplitude?

1) : Polar
2) : Bipolar
3) : Unipolar
4) : All the above

Correct Option : 3 From : Lecture 14

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Question # 46

_____ conversion is the process of changing one of the characteristics of an analog signal based on the information in the digital data.

1) : Digital-to-analog
2) : Analog-to-analog
3) : Analog-to-digital
4) : Digital-to-digital

Correct Option : 1 From : Lecture 14

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Question # 47

Which encoding technique attempts to solve the loss of synchronization due to long strings of 0s?

1) : NRZ
2) : B8ZS
3) : AMI

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4) : (a) and (b)

Correct Option : 2 From : Lecture 15

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Question # 48

_____ encoding has a transition at the beginning of each 0 bit.

1) : Differential Manchester
2) : RZ
3) : Manchester
4) : All the above

Correct Option : 1 From : Lecture 15

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Question # 49

Which of the following encoding methods does not provide for synchronization?

1) : Manchester
2) : NRZ-L
3) : RZ
4) : NRZ-I

Correct Option : 2 From : Lecture 15

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Question # 50

Which encoding method uses alternating positive and negative values for 1s?

1) : Manchester
2) : AMI
3) : NRZ-I
4) : RZ

Correct Option : 2 From : Lecture 15

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Question # 51

RZ encoding involves _____ signal levels.

1) : Five
2) : Four
3) : Three
4) : Two

Correct Option : 3 From : Lecture 15

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Question # 52

PCM is an example of _____ conversion.

1) : Analog-to-analog
2) : Analog-to-digital
3) : Digital-to-digital
4) : Digital-to-analog

Correct Option : 2 From : Lecture 16

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Question # 53

One factor in the accuracy of a reconstructed PCM signal is the _____.

1) : Number of bits used for quantization

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2) : Signal bandwidth
3) : Carrier frequency
4) : Baud rate
Correct Option : 1 From : Lecture 16
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Question # 54
In PCM, an analog-to- _____ conversion occurs.
1) : Analog
2) : Digital
3) : QAM
4) : Differential
Correct Option : 2 From : Lecture 16
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Question # 55
If the maximum value of a PCM signal is 31 and the minimum value is -31, how many bits were used for coding?
1) : 4
2) : 5
3) : 6
4) : 7
Correct Option : 3 From : Lecture 16
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Question # 56
Which quantization level results in a more faithful reproduction of the signal?
1) : 2
2) : 8
3) : 16
4) : 32
Correct Option : 4 From : Lecture 16
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Question # 57
In _____ transmission, bits are transmitted over a single wire, one at a time.
1) : Asynchronous serial
2) : Synchronous serial
3) : Parallel
4) : (a) and (b)
Correct Option : 4 From : Lecture 17
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Question # 58
In _____ transmission, a start bit and a stop bit frame a character byte.
1) : Synchronous serial
2) : Asynchronous serial
3) : Parallel
4) : (a) and (b)
Correct Option : 2 From : Lecture 17
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Question # 59

If a symbol is composed of 3 bits, there are _____ data levels.

1) : 2
2) : 4
3) : 8
4) : 16

Correct Option : 3 From : Lecture 17

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Question # 60

The Nyquist theorem specifies the minimum sampling rate to be_____.

1) : Twice the bandwidth of a signal
2) : Twice the highest frequency of a signal
3) : Equal to the lowest frequency of a signal
4) : Equal to the highest frequency of a signal

Correct Option : 2 From : Lecture 17

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Question # 61

Pulse rate is always _____ the bit rate.

1) : Less than
2) : Less than or equal to
3) : Greater than
4) : Greater than or equal to

Correct Option : 2 From : Lecture 17

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Question # 62

ASK, PSK, FSK, and QAM are examples of _____ conversion.

1) : digital-to-digital
2) : digital-to-analog
3) : analog-to-analog
4) : analog-to-digital

Correct Option : 2 From : Lecture 17

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Question # 63

In QAM, both _____ of a carrier frequency are varied.

1) : frequency and amplitude
2) : phase and frequency
3) : amplitude and phase
4) : none of the above

Correct Option : 3 From : Lecture 17

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Question # 64

If the baud rate is 400 for a QPSK signal, the bit rate is _____ bps.

1) : 100
2) : 400
3) : 800
4) : 1600

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Correct Option : 3 From : Lecture 17

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Question # 65

If the bit rate for an ASK signal is 1200 bps, the baud rate is _____.

1) : 300
2) : 400
3) : 600
4) : 1200

Correct Option : 4 From : Lecture 17

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Question # 66

If the bit rate for an FSK signal is 1200 bps, the baud rate is _____.

1) : 300
2) : 400
3) : 600
4) : 1200

Correct Option : 4 From : Lecture 17

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Question # 67

If the bit rate for a 16-QAM signal is 4000 bps, what is the baud rate?

1) : 300
2) : 400
3) : 1000
4) : 1200

Correct Option : 4 From : Lecture 17

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Question # 68

If the baud rate for a 64-QAM signal is 2000, what is the bit rate?

1) : 300
2) : 400
3) : 1000
4) : 12000

Correct Option : 3 From : Lecture 17

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Question # 69

Quadrature amplitude modulation (QAM) is a combination of _____.

1) : ASK and FSK
2) : ASK and PSK
3) : PSK and FSK
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 70

_____ uses two carriers, one in-phase and the other quadrature.

1) : ASK
2) : PSK

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3) : FSK
4) : QAM
Correct Option : 4 From : Lecture 17
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Question # 71
Analog-to-analog conversion is needed if the available bandwidth is _____.
1) : low-pass
2) : band-pass
3) : either (a) or (b)
4) : neither (a) nor (b)
Correct Option : 2 From : Lecture 17
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Question # 72
Which of the following is not an analog-to-analog conversion?
1) : AM
2) : PM
3) : FM
4) : QAM
Correct Option : 4 From : Lecture 17
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Question # 73
In _____ transmission, the carrier signal is modulated so that its amplitude varies with the changing amplitudes of the modulating signal.
1) : AM
2) : PM
3) : FM
4) : none of the above
Correct Option : 1 From : Lecture 17
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Question # 74
In _____ transmission, the frequency of the carrier signal is modulated to follow the changing voltage level (amplitude) of the modulating signal. The peak amplitude and phase of the carrier signal remain constant, but as the amplitude of the information signal changes, the frequency of the carrier changes correspondingly.
1) : AM
2) : PM
3) : FM
4) : none of the above
Correct Option : 3 From : Lecture 17
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Question # 75
In _____ transmission, the phase of the carrier signal is modulated to follow the changing voltage level (amplitude) of the modulating signal.
1) : AM
2) : PM
3) : FM

4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 76

In _____, the peak amplitude of one signal level is 0; the other is the same as the amplitude of the carrier frequency.

1) : PSK
2) : OOK
3) : FSK
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 77

The constellation diagram of 16-QAM has _____ dots.

1) : 4
2) : 16
3) : 8
4) : none of the above

Correct Option : 3 From : Lecture 17

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Question # 78

The Federal Communications Commission (FCC) allows _____kHz for each AM station.

1) : 5
2) : 10
3) : 20
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 79

The Federal Communications Commission (FCC) allows _____ kHz for each FM station.

1) : 20
2) : 100
3) : 200
4) : none of the above

Correct Option : 2 From : Lecture 17

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Question # 80

Which of the following is not a digital-to-analog conversion?

1) : ASK
2) : PSK
3) : FSK
4) : AM

Correct Option : 4 From : Lecture 18

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Question # 81

In _____, the amplitude of the carrier signal is varied to create signal elements. Both frequency and phase remain constant.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 1 From : Lecture 18

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Question # 82

In _____, the frequency of the carrier signal is varied to represent data. Both peak amplitude and phase remain constant.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 3 From : Lecture 18

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Question # 83

In _____, the phase of the carrier is varied to represent two or more different signal elements. Both peak amplitude and frequency remain constant.

1) : ASK
2) : PSK
3) : FSK
4) : QAM

Correct Option : 2 From : Lecture 18

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Question # 84

A constellation diagram shows us the _____ of a signal element, particularly when we are using two carriers (one in-phase and one quadrature).

1) : amplitude and phase
2) : amplitude and frequency
3) : frequency and phase
4) : none of the above

Correct Option : 1 From : Lecture 18

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Question # 85

_____ conversion is the representation of analog information by an analog signal.

1) : Digital-to-analog
2) : Analog-to-analog
3) : Analog-to-digital
4) : Digital-to-digital

Correct Option : 2 From : Lecture 18

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Question # 86

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AM and FM are examples of _____ conversion.

1) : digital-to-digital
2) : digital-to-analog
3) : analog-to-analog
4) : analog-to-digital

Correct Option : 3 From : Lecture 19

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Question # 87

Given an AM radio signal with a bandwidth of 10 KHz and the highest-frequency component at 705 KHz, what is the frequency of the carrier signal?

1) : 700 KHz
2) : 705 KHz
3) : 710 KHz
4) : Cannot be determined from given information

Correct Option : 1 From : Lecture 19

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Question # 88

The physical communication pathway that transfers data from one device to another is called _____

1) : Link
2) : Path
3) : Circuit
4) : Routing

Correct Option : 1 From : Lecture 2

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Question # 89

End to End rout Within a Network is called _____

1) : Link
2) : Path
3) : Circuit
4) : Routing

Correct Option : 2 From : Lecture 2

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Question # 90

In the original ARPANET, _____ were directly connected together.

1) : IMPs
2) : host computers
3) : networks
4) : routers

Correct Option : 1 From : Lecture 2

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Question # 91

This was the first network.

1) : CSNET
2) : ANSNET
3) : ARPANET

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4) : NSFNET

Correct Option : 3 From : Lecture 2

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Question # 92

Well Designed Softwae can speed up the Process

1) : TRUE

2) : FALSE

3) :

4) :

Correct Option : 1 From : Lecture 2

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Question # 93

There are 5 Factors on which performance depend. Chose one set

1) : Number of Users, medium type, Hardware, software and Network criteria

2) : Number of Users,Nodes, Hardware, software and Network criteria

3) : Number of Users,Nodes, Hardware, software and Network

4) : None of the Given

Correct Option : 1 From : Lecture 2

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Question # 94

Frequency of failure and network recovery time after a failure is measures of the _____ of a network.

1) : Performance

2) : Reliability

3) : Security

4) : Feasibility

Correct Option : 2 From : Lecture 2

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Question # 95

An unauthorized user is a network _____ issue.

1) : Performance

2) : Reliability

3) : Security

4) : All the above

Correct Option : 3 From : Lecture 2

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Question # 96

Example of the Network application for Teleconferencing is _____

1) : Conferenc

2) : Video

3) : Video Conferencing

4) : None of the Given

Correct Option : 3 From : Lecture 2

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Question # 97

The complete path between two terminals over which can communicate is called

_____

1) : Link
2) : path
3) : Circuit
4) : routing

Correct Option : 3 From : Lecture 2

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Question # 98

Node can be a computer, printer or any other device capable of sending or receiving.

1) : TRUE
2) : FALSE
3) :
4) :

Correct Option : 1 From : Lecture 2

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Question # 99

One Advantages of the Distributed processing is _____

1) : Collaborative Processing
2) : Multitasking
3) : Network
4) : Fast and Costly

Correct Option : 1 From : Lecture 2

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Question # 100

If the available channel is a ____ channel, we cannot send a digital signal directly to the channel.

1) : low-pass
2) : bandpass
3) : low rate
4) : high rate

Correct Option : 2 From : Lecture 20

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Question # 101

For a _____ channel, the Nyquist bit rate formula defines the theoretical maximum bit rate.

1) : noisy
2) : noiseless
3) : bandpass
4) : low-pass

Correct Option : 2 From : Lecture 20

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Question # 102

For a _____ channel, we need to use the Shannon capacity to find the maximum bit rate.

1) : noisy

2) : noiseless
3) : bandpass
4) : low-pass
Correct Option : 1 From : Lecture 20
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Question # 103
The boundary between two pieces if equipment is called _____
1) : Interface
2) : Signal Genreation
3) : Network
4) : None of the Given
Correct Option : 1 From : Lecture 3
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Question # 104
Which one are the communication tasks _____
1) : Signal and sending data
2) : Addressing, Communicate, sending Data
3) : Interface, routing and Security
4) : There are not Tasks for Communications
Correct Option : 3 From : Lecture 3
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Question # 105
What , How to and when to communicated is defined bye
1) : Protocol
2) : Medium
3) : Signal
4) : Transmission
Correct Option : 1 From : Lecture 3
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Question # 106
Key elements of the Protocol are _____
1) : Signals, Semantic and Tuning
2) : Syntax, Semantic and Tuning
3) : Protocol, Interface and Tuning
4) : Tuning, Interface and Routing
Correct Option : 2 From : Lecture 3
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Question # 107
The Structure of format of data, meaning the order in which key are presented is known as _____
1) : Semantic
2) : Tuning
3) : Signals
4) : Syntax
Correct Option : 4 From : Lecture 3
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Question # 108

_____ Refer to the meaning of each section bits.

1) : Semantic
2) : Tuning
3) : Signals
4) : Syntax

Correct Option : 1 From : Lecture 3

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Question # 109

When data should be sent and how fast it be sent is decided by_____

1) : Semantic
2) : Tuning
3) : Signals
4) : Syntax

Correct Option : 2 From : Lecture 3

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Question # 110

_____ refers to two characteristics: when data should be sent and how fast it can be sent.

1) : Semantics
2) : Syntax
3) : Timing
4) : None of the above

Correct Option : 3 From : Lecture 3

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Question # 111

There are two Main type of Standards_____

1) : De facto and De Law
2) : De facto and De jure
3) : Proprietary and De Facto
4) : No Proprietary and Proprietary

Correct Option : 2 From : Lecture 4

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Question # 112

No Proprietary and Proprietary are subtype of _____

1) : Open
2) : De Law
3) : De Jure
4) : De Facto

Correct Option : 4 From : Lecture 4

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Question # 113

Standards are developed mainly bye _____ entities:

1) : 6
2) : 4
3) : 3

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4) : 2

Correct Option : 3 From : Lecture 4

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Question # 114

There are _____ and they are slow moving and cannot co-op with the fast growing communication industry.

1) : Procedural Bodies
2) : Many Propels
3) : Some Engineers
4) : Many Engineers

Correct Option : 1 From : Lecture 4

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Question # 115

International standard Organization includes representatives from _____ countries

1) : 82
2) : 150
3) : 83
4) : 68

Correct Option : 1 From : Lecture 4

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Question # 116

V series, X Series and ISDN (integrated Services Digital Network) are Defined bay _____

1) : ISO
2) : ITU-T
3) : CCITT
4) : ANSI

Correct Option : 2 From : Lecture 4

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Question # 117

___ submits Proposal to ITU-T

1) : USA
2) : ISO
3) : IEEE
4) : ANSI

Correct Option : 4 From : Lecture 4

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Question # 118

_____ Is the World largest society of professional engineers.

1) : USA
2) : ISO
3) : IEEE
4) : ANSI

Correct Option : 3 From : Lecture 4

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Question # 119

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IEEE is stand for _____

1) : International Electrical and Electronics Engineers
2) : International Electrically and Electronics Engineers
3) : International Educated Electrically Engineers
4) : None of the Given

Correct Option : 1 From : Lecture 4

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Question # 120

_____refer to the way two or more devices attach to a link

1) : Protocol
2) : Medium
3) : Line Configuration
4) : Transmission

Correct Option : 3 From : Lecture 4

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Question # 121

A _____ connection provides a dedicated link between two devices.

1) : point-to-point
2) : multipoint
3) : primary
4) : secondary

Correct Option : 1 From : Lecture 4

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Question # 122

In a _____ connection, more than two devices can share a single link.

1) : point-to-point
2) : multipoint
3) : primary
4) : secondary

Correct Option : 2 From : Lecture 4

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Question # 123

In a _____ connection, two and only two devices are connected by a dedicated link.

1) : multipoint
2) : point-to-point
3) : (and (
4) : None of the above

Correct Option : 2 From : Lecture 4

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Question # 124

In a _____ connection, three or more devices share a link.

1) : multipoint
2) : point-to-point
3) : (and (
4) : None of the above

Correct Option : 1 From : Lecture 4

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Question # 125

If several devices can share the link simultaneously, its called spatially shared _____

1) : Spatial Shared
2) : Temporal Shared
3) : point-to-point
4) : multipoint

Correct Option : 1 From : Lecture 4

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Question # 126

If user must take turns using the link, then it's called _____

1) : Spatial Shared
2) : Temporal Shared
3) : point-to-point
4) : multipoint

Correct Option : 2 From : Lecture 4

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Question # 127

Which topology requires a central controller or hub?

1) : Mesh
2) : Star
3) : Bus
4) : Ring

Correct Option : 2 From : Lecture 5

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Question # 128

Which topology requires a multipoint connection?

1) : Mesh
2) : Star
3) : Bus
4) : Ring

Correct Option : 3 From : Lecture 5

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Question # 129

_____defines the physical or the logical outlook of the network.

1) : Typology
2) : Star
3) : Bus
4) : Ring

Correct Option : 1 From : Lecture 5

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Question # 130

_____ refers to the physical or logical arrangement of a network.

1) : Data flow

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2) : Mode of operation
3) : Topology
4) : None of the above
Correct Option : 3 From : Lecture 5
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Question # 131
Devices may be arranged in a _____ topology.
1) : Mesh
2) : Ring
3) : Bus
4) : All of the above
Correct Option : 4 From : Lecture 5
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Question # 132
Communication between a computer and a keyboard involves _____ transmission.
1) : simplex
2) : half-duplex
3) : full-duplex
4) : automatic
Correct Option : 1 From : Lecture 6
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Question # 133
A television broadcast is an example of _____ transmission.
1) : simplex
2) : half-duplex
3) : full-duplex
4) : automatic
Correct Option : 1 From : Lecture 6
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Question # 134
In _____ transmission, the channel capacity is shared by both communicating devices at all times.
1) : simplex
2) : half-duplex
3) : full-duplex
4) : half-simplex
Correct Option : 3 From : Lecture 6
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Question # 135
Data flow between two devices can occur in a _____ way.
1) : simplex
2) : half-duplex
3) : full-duplex
4) : all of the above
Correct Option : 4 From : Lecture 6

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Question # 136

A _____ is a data communication system within a building, plant, or campus, or between nearby buildings.

1) : MAN
2) : LAN
3) : WAN
4) : None of the above

Correct Option : 2 From : Lecture 6

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Question # 137

A _____ is a data communication system spanning states, countries, or the whole world.

1) : MAN
2) : LAN
3) : WAN
4) : None of the above

Correct Option : 3 From : Lecture 6

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Question # 138

_____ is a collection of many separate networks.

1) : A WAN
2) : An internet
3) : A LAN
4) : None of the above

Correct Option : 1 From : Lecture 6

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Question # 139

There are _____ Internet service providers.

1) : Local
2) : Regional
3) : National and international
4) : All of the above

Correct Option : 3 From : Lecture 6

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Question # 140

A _____ is a set of rules that governs data communication.

1) : Forum
2) : Protocol
3) : Standard
4) : None of the above

Correct Option : 2 From : Lecture 6

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Question # 141

_____ is an idea or concept that is a precursor to an Internet standard.

1) : RCF

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2) : RFC
3) : ID
4) : None of the above
Correct Option : 2 From : Lecture 6
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Question # 142
The _____ layer changes bits into electromagnetic signals.
1) : Physical
2) : Transport
3) : None of the above
4) : Data link
Correct Option : 1 From : Lecture 7
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Question # 143
The physical layer is concerned with the transmission of _____ over the physical medium.
1) : Programs
2) : Protocols
3) : Bits
4) : Dialogs
Correct Option : 3 From : Lecture 7
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Question # 144
Which layer functions as a liaison between user support layers and network support layers?
1) : Network layer
2) : Transport layer
3) : Physical layer
4) : Application layer
Correct Option : 3 From : Lecture 7
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Question # 145
The Internet model consists of _____ layers.
1) : Three
2) : Five
3) : Seven
4) : Eight
Correct Option : 2 From : Lecture 7
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Question # 146
The _____ layer is the layer closest to the transmission medium.
1) : Network
2) : Physical
3) : Data link
4) : Transport
Correct Option : 2 From : Lecture 7

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Question # 147

The _____ layer lies between the network layer and the application layer.

1) : Data link
2) : Physical
3) : Transport
4) : None of the above

Correct Option : 3 From : Lecture 8

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Question # 148

Layer 2 lies between the physical layer and the _____ layer.

1) : Data link
2) : Network
3) : Transport
4) : None of the above

Correct Option : 2 From : Lecture 8

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Question # 149

As the data packet moves from the lower to the upper layers, headers are _____.

1) : Added
2) : Rearranged
3) : Modified
4) : Subtracted

Correct Option : 4 From : Lecture 9

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Question # 150

As the data packet moves from the upper to the lower layers, headers are _____.

1) : Removed
2) : Added
3) : Rearranged
4) : Modified

Correct Option : 3 From : Lecture 9

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Question # 151

When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

1) : Physical
2) : Application
3) : Transport
4) : None of the above

Correct Option : 3 From : Lecture 9

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Question # 152

What is the main function of the transport layer?

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1) : Process-to-process delivery
2) : Node-to-node delivery
3) : Synchronization
4) : Updating and maintenance of routing tables

Correct Option : 1 From : Lecture 9

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Question # 153

The process-to-process delivery of the entire message is the responsibility of the _____ layer.

1) : Physical
2) : Network
3) : Transport
4) : Application

Correct Option : 3 From : Lecture 9

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Top

Question No: 1 (Marks: 1) - Please choose one

Dividing data into manageable parts or data chunks is called as

- ► packetizing
- ► framing
- ► both are true
- ► both are false

Question No: 2 (Marks: 1) - Please choose one

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_____requires the maximum number of I/O ports.

- ► Bus
- ► Star
- ► Mesh
- ► Ring

Question No: 3 (Marks: 1) - Please choose one

Unidirectional traffic movement is overcome by dual ring technology.

- ► True
- ► False

Question No: 4 (Marks: 1) - Please choose one

Headers are added at layers 1 and 7 of OSI model.

- ► True
- ► False

Question No: 5 (Marks: 1) - Please choose one

Upper OSI layers are always implemented in _____

- ► software
- ► hardware
- ► both hardware and software

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Question No: 6 (Marks: 1) - Please choose one

Internet with small “i” specifies the world wide Network the actual internet.

- ► True
- ► False

Question No: 7 (Marks: 1) - Please choose one

Data synchronization is a function related with _____

- ► session layer
- ► presentation layer
- ► transport

Question No: 8 (Marks: 1) - Please choose one

Session layer is responsible for segmentation and reassembly.

- ► True
- ► False

Question No: 9 (Marks: 1) - Please choose one

A periodic signal can always be decomposed into _____

- ► exactly an odd number of sine waves
- ► a set of sine waves

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- ► set of sine waves, one of the which must have a phase of 00
- ► none of the given

Question No: 10 (Marks: 1) - Please choose one

The powerful carrier signal is called as the_____

- ► carrier frequency
- ► base signal
- ► carrier frequency and base signal
- ► none of given

Question No: 11 (Marks: 1) - Please choose one

In _____ transmission the timing of the signal is unimportant.

- ► Asynchronous
- ► Synchronous
- ► Polar
- ► Bi-polar

Question No: 12 (Marks: 1) - Please choose one

In case of uploading at the switching station, data is converted to digital signal using _____.

- ► TCP
- ► PCM

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► ICP

► TDM

Question No: 13 (Marks: 1) - Please choose one

Transmission of data from ISP to the subscriber is called Downloading.

► True

► False

Question No: 14 (Marks: 1) - Please choose one

Transmission media are usually categorized as _____

► Fixed or Unfixed

► Guided or Unguided

► Determinate or Indeterminate

► Metallic or Nonmetallic

Question No: 15 (Marks: 1) - Please choose one

Category 1 UTP cable is most often used in _____ networks.

► Fast Ethernet

► Traditional Ethernet

► Infra-red

► Telephone

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Question No: 16 (Marks: 1) - Please choose one

The inner core of an optical fiber is _____ in composition.

- ► Glass plastic
- ► Copper
- ► Bimetallic
- ► Liquid

Question No: 17 (Marks: 1) - Please choose one

Radio wave and microwave frequencies range from _____.

- ► 3 to 300 KHz
- ► 300 KHz to300 KHz to 3 GHz
- ► 3 KHz to 300 GHz
- ► 3 KHz to 3000 GHz

Question No: 18 (Marks: 1) - Please choose one

The _____ is an association that sponsors the use of infrared waves.

- ► IrDA
- ► EIA
- ► FCC
- ► PUD

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Question No: 19 (Marks: 1) - Please choose one

Optical fibers are defined by the ratio of the _____ of their core to the diameter of their cladding.

- ► Diameter
- ► Radius
- ► Length
- ► Width

Question No: 20 (Marks: 1) - Please choose one

All of popular Fiber optic connectors are _____ shaped.

- ► Conical
- ► Barrel
- ► Circular
- ► Rectangular

Question No: 21 (Marks: 1) - Please choose one

Which media can support higher Bandwidths and higher data rates.

- ► Coaxial cable
- ► Optical fiber
- ► STP
- ► UTP

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Question No: 22 (Marks: 1) - Please choose one

The VLF and LF bands use _____ propagation for communications.

- ► Ground
- ► Sky
- ► Line of sight
- ► Space

Question No: 23 (Marks: 1) - Please choose one

Middle frequency waves having range 300 KHz-3 MHz always use _____ propagation.

- ► Ground
- ► Sky
- ► Line of Sight
- ► Space

Question No: 24 (Marks: 1) - Please choose one

Which of the following are not used to measure the performance of TX Media.

- ► Throughput
- ► Propagation Speed
- ► Propagation Time

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► none of the given

Question No: 25 (Marks: 1) - Please choose one

A portion of the path that carries TX b/w a given pair of devices is known as _____.

► Node

► Bridge

► Channel

► Gateway

Question No: 26 (Marks: 1) - Please choose one

A prism can deflect the light depending upon the angle of _____ and the frequency.

► Deviation

► Incident

► Refraction

► Reflection

Question No: 27 (Marks: 1) - Please choose one

In bit _____, MUX adds extra bits to a device.

► Stuffing

► Adding

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- ► Multiplication
- ► Exchanging

Question No: 28 (Marks: 1) - Please choose one

Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- ► Interleaving
- ► Addition
- ► Substraction
- ► None of the given

Question No: 29 (Marks: 1) - Please choose one

_____ takes data from one high speed line and breaks it into portions.

- ► Multiplexing
- ► Inverse multiplexing
- ► Inverse subtraction
- ► Inverse addition

Question No: 30 (Marks: 1) - Please choose one

Multiplexing has long been used as an essential tool in the _____.

- ► Electronic industry

► Telephone industry

► Space science

► VLAN

Question No: 31 (Marks: 1) - Please choose one

The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

► Twisted-pair

► Coaxial

► Fiber-optic

► None of the given

Question No: 32 (Marks: 1) - Please choose one

T Lines are _____ lines designed for digital data.

► Analog

► Digital

► Composite

► Telephone

Question No: 33 (Marks: 1) - Please choose one

In CRC there is no error if the remainder at the receiver is _____

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- ► Equal to the remainder at the sender
- ► Zero
- ► Nonzero
- ► The quotient at the sender

Question No: 34 (Marks: 1) - Please choose one

Which error detection method involves the use of parity bits?

- ► Simple parity check & two dimensional parity check
- ► CRC
- ► Two-dimensional parity check
- ► Simple parity check

Question No: 35 (Marks: 1) - Please choose one

If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is _____

- ► Even
- ► Odd
- ► Indeterminate
- ► 42

Question No: 36 (Marks: 1) - Please choose one

The Hamming code is a method of _____

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- ► Error detection
- ► Error correction
- ► Error ecapsulation
- ► Error detection & Error encapsulation

Question No: 37 (Marks: 1) - Please choose one

Error control is both error _____ and error _____

- ► detection; correction
- ► detection; deletion
- ► detection; avoidance
- ► detection; forwarding

Question No: 38 (Marks: 1) - Please choose one

ENQ/ACK stands for_____

- ► Enquiry/ Acknowledgment
- ► Enque/ Acknowledgment
- ► Enquist/ Acknowledgment
- ► none of the given

Question No: 39 (Marks: 1) - Please choose one

In primary-secondary communication _____ is always the initiator of a session

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- ► Primary
- ► Secondary
- ► Sender
- ► Receiver

Question No: 40 (Marks: 1) - Please choose one

Primary device uses _____ to receive transmission from the secondary devices.

- ► ACK
- ► ENQ
- ► POLL

Question No: 41 (Marks: 1) - Please choose one

In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

- ► Stop-and-wait
- ► Go-Back-N
- ► Selective repeat
- ► Stop-and-wait & Go-back-N

Question No: 42 (Marks: 1) - Please choose one

A timer is set when _____ is sent out.

- ► A data frame

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► An ACK

► A NAK

Question No: 43 (Marks: 1) - Please choose one

For stop-and-wait ARQ, for N data packets sent, _____ acknowledgments are needed.

► N

► 2N

► N-1

► N+1

Question No: 44 (Marks: 1) - Please choose one

HDLC is an acronym for _____.

► High-duplex line communication

► High-level data link control

► Half-duplex digital link combination

► Host double-level circuit

Question No: 45 (Marks: 1) - Please choose one

The address field of a frame in HDLC protocol contains the address of the _____ station.

► Primary

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► Secondary

► Tertiary

► Primary and Secondary

Question No: 46 (Marks: 1) - Please choose one

The DSAP and SSAP are addresses used by _____ to identify the protocol stacks.

► LLC

► MAC

► Network

Question No: 47 (Marks: 1) - Please choose one

IEEE divides the base band category into _____ standards.

► 5

► 4

► 3

► 6

Question No: 48 (Marks: 1) - Please choose one

Which of the following is a bus topology LAN that uses base band signaling and has a max. segment length of 500 meters

► 10 Base5

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- ► 10 Base2
- ► 100 Base2
- ► 100 Base5

Question No: 49 (Marks: 1) - Please choose one

We need _____ to decompose a composite signal into its components.

- ► fourier transform
- ► nyquist theorem
- ► shannon capacity

Question No: 50 (Marks: 1) - Please choose one

Data from computer is in _____ form and the local loop handles _____ signals.

- ► Analog; analog
- ► Analog; digital
- ► Digital; digital
- ► Digital; analog

Question No: 51 (Marks: 2)

What is the relationship between the size of the CRC remainder and the divisor?

Question No: 52 (Marks: 2)

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Stop-and- wait ARQ has two control variables S and R. What are their functions? [2]

Question No: 53 (Marks: 2)

What is meant by Transmission Impairments?

Question No: 54 (Marks: 3)

Write down names of the control frames in XMODEM. [3]

Question No: 55 (Marks: 3)

What are the fractional T Lines?

Question No: 56 (Marks: 3)

what is interleaving?

Question No: 57 (Marks: 5)

Name and discuss briefly the bits in the HDLC control field. [5]

Question No: 58 (Marks: 5)

What is the difference between Digital Data Service (DDS) and Digital Signal Service (DS)?

Question No: 59 (Marks: 10)

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Give characteristics of switched analog services and leased analog services. [5+5]

Dear Students....
CS601 Current Paper.....

Time: 60 min

Marks: 42

Student Info	
Student ID:	
Center:	
Exam Date:	

For Teacher's Use Only									
Q No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**Total**
Marks									
Q No.	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	
Marks									
Q No.	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	
Marks									
Q No.	**25**	**26**	**27**						
Marks									

Question No: 1 (Marks: 1) - Please choose one

Effective network mean that the network has fast delivery, timeliness and

► high bandwidth

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► duplex transmission

► accurate transmission

► low bandwidth

Question No: 2 (Marks: 1) - Please choose one

Which one best describes the given statement:

"To allow multiple users to share total capacity of a transmission medium"

► congestion control

► exchange management

► multiplexing

Question No: 3 (Marks: 1) - Please choose one

A_____ provides a model for development that makes it possible for a product to work regardless of the individual manufacturer.

► protocol

► standard

► topology

► system

Question No: 4 (Marks: 1) - Please choose one

_____ is a multipoint topology.

► Ring

► Mesh

► Tree

► Bus

Question No: 5 (Marks: 1) - Please choose one

_____requires the maximum number of I/O ports.

► Bus
► Star
► Mesh
► Ring

Question No: 6 (Marks: 1) - Please choose one

_____ topology tells us how networks communicate with one another and how data is transferred.

► logical
► physical
► logical and physical

Question No: 7 (Marks: 1) - Please choose one

Which topology requires a multipoint connection?

► Mesh
► Star
► Bus
► Ring

Question No: 8 (Marks: 1) - Please choose one

Headers are added at layers 1 and 7 of OSI model.

► True
► False

Question No: 9 (Marks: 1) - Please choose one

Internet with small “i” specifies the world wide Network the actual internet.

► True
► False

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Question No: 10 (Marks: 1) - Please choose one

The internet model consists of _____ layers.

► three

► two

► five

► seven

Question No: 11 (Marks: 1) - Please choose one

As the data packet moves from the lower to the upper layers, headers are _____.

► added

► subtracted

► rearranged

► modified

Question No: 12 (Marks: 1) - Please choose one

Data link layer deals with mechanical and electrical specifications of transmission medium and interface

► True

► False

Question No: 13 (Marks: 1) - Please choose one

Which layer is responsible for source to destination delivery of entire message?

► transport layer

► network layer

► session layer

► application layer

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Question No: 14 (Marks: 1) - Please choose one

The inversion of the level at 1 bit is called as _____

► NRZ-L

► NRZ-I

► RZ

Question No: 15 (Marks: 1) - Please choose one

Which of the encoding schemes have bandwidth problems?

► Differential Manchester

► AMI

► RZ

Question No: 16 (Marks: 1) - Please choose one

Bi phase encoding is a type of bipolar encoding in which we use two voltage levels.

► True

► False

Question No: 17 (Marks: 1) - Please choose one

ASK require a minimum bandwidth equal to its baud rate.

► True

► False

Question No: 18 (Marks: 1) - Please choose one

A 56k modem can download at a rate of _____ Kbps and upload at a rate of _____ Kbps.

► 33.6: 33.6

► 33.6: 56.6

► 56.6: 33.6

► 56.6: 56.6

Question No: 19 (Marks: 1) - Please choose one

In _____ transmission the timing of the signal is unimportant.

► Asynchronous

► Synchronous

► Polar

► Bi-polar

Question No: 20 (Marks: 1) - Please choose one

There are _____ basic functional units involved in the communication of data.

► 3

► 1

► 2

► 4

Question No: 21 (Marks: 1) - Please choose one

At the _____layer, a DCE takes data generated by a DTE.

► physical

► transport

► data link

► application

Question No: 22 (Marks: 1) - Please choose one

The last modified version of EIA-232 standard is _____

► EIA-232 D

► EIA-232 A

► EIA-232 B

► EIA-232 C

Question No: 23 (Marks: 1) - Please choose one

Traditional telephony lines carry frequencies btw 300 Hz and 3300 Hz giving them a bandwidth of 3000 Hz.

► 3100

► 3000

► 3200

► 3300

Question No: 24 (Marks: 1) - Please choose one

We need _____ to decompose a composite signal into its components.

► fourier transform

► nyquist theorem

► shannon capacity

Question No: 25 (Marks: 3)

At which layer synchronization of Bits occur and how?

Question No: 26 (Marks: 5)

What is meant by Zero Frequency and Infinite Frequency?

Question No: 27 (Marks: 10)

Describe functions of each layer of OSI Model briefly?

Top

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MIDTERM EXAMINATION
Spring 2009
CS601- Data Communication (Session - 2)

Ref No: 448559
Time: 60 min
Marks: 40

For Teacher's Use Only									
Q No.	1	2	3	4	5	6	7	8	Total
Marks									
Q No.	9	10	11	12	13	14	15	16	
Marks									
Q No.	17	18	19	20	21	22	23	24	
Marks									

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Question No: 1 (Marks: 1) - Please choose one

The last modified version of EIA-232 standard is _____

- ► EIA-232 D
- ► EIA-232 A
- ► EIA-232 B
- ► EIA-232 C

Question No: 2 (Marks: 1) - Please choose one

_____ require more bandwidth.

- ► FSK
- ► ASK
- ► PSK
- ► QAM

Question No: 3 (Marks: 1) - Please choose one

ASK, PSK, FSK and QAM are examples of _____ modulation.

- ► digital-to-digital
- ► digital-to-analog
- ► analog-to-analog
- ► analog-to-digital

Question No: 4 (Marks: 1) - Please choose one

Amplitude in ASK is more resistive to EMI and Noise.

- True
- False

Question No: 5 (Marks: 1) - Please choose one

The inversion of the level at 1 bit is called as _____

- ► NRZ-L
- ► NRZ-I
- ► RZ

Question No: 6 (Marks: 1) - Please choose one

Manchester is a type of _____encoding.

- ► biphase
- ► polar
- ► biphase & polar
- ► none of the given

Question No: 7 (Marks: 1) - Please choose one

Zero crossing bandwidth is also called as equivalent noise bandwidth.

- ► True
- ► False

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Question No: 8 (Marks: 1) - Please choose one

A periodic signal can always be decomposed into _____

- ► exactly an odd number of sine waves
- ► a set of sine waves
- ► set of sine waves, one of the which must have a phase of 00
- ► none of the given

Question No: 9 (Marks: 1) - Please choose one

Data must be converted into_____ before transmission.

- signal
- wave
- electric pulse

Question No: 10 (Marks: 1) - Please choose one

A signal that repeats a pattern over a regular interval of time is called_____.

- ► periodic signal
- ► analog signal
- ► composite signal

Question No: 11 (Marks: 1) - Please choose one

Fourier transform tells us that any digital signal can be decomposed into infinite number of periodic signals

- ► True
- ► False

Question No: 12 (Marks: 1) - Please choose one

When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- ► physical
- ► transport
- ► application
- ► none of the given

Question No: 13 (Marks: 1) - Please choose one

_____ layer deals with syntax and semantics of information exchange.

- presentation
- session
- application
- physical

Question No: 14 (Marks: 1) - Please choose one

Which layer is responsible for source to destination delivery of entire message?

- ► transport layer
- ► network layer
- ► session layer
- ► application layer

Question No: 15 (Marks: 1) - Please choose one

Line configuration is the function of _____ layer

- ► data link
- ► network
- ► physical
- ► transport

Question No: 16 (Marks: 1) - Please choose one

_____representation of links that connect nodes is called as physical topology.

- ► geometrical
- ► logical
- ► physical

Question No: 17 (Marks: 1) - Please choose one

_____ topology tells us how networks communicate with one another and how data is transferred.

- ► logical
- ► physical
- ► logical and physical

Question No: 18 (Marks: 1) - Please choose one

_____requires the maximum number of I/O ports.

- ► Bus
- ► Star
- ► Mesh
- ► Ring

Question No: 19 (Marks: 1) - Please choose one

Which one is not among standard creation committee.

- ► internet society and IETF
- ► ITU-T
- ► IEEE

Question No: 20 (Marks: 1) - Please choose one

Frequency of a failure and network recovery time after a failure are measures of the _____ of a network.

- ► Performance

- Reliability
- Security
- Feasibility

Question No: 21 (Marks: 2)

What relationships are possible in a network?

Question No: 22 (Marks: 3)

When and why recovery techniques are required in data communication?

Question No: 23 (Marks: 5)

Differentiates between the following terms. [10 marks]

(a) Syntax and Semantics of protocol.
(b) Network management and exchange management.
(c) Monolithic and structured.

Question No: 24 (Marks: 10)

Compare time and frequency domain plots with suitable examples?

Top

/wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 1 of 10 (Start time: 11:37:44 AM) **Total Marks:** 1

For point-to-point configuration, addressing is needed

Select correct option:

- True
- False

Click here to Save Answer & Move to Next Question

/wEWBAKFvdSaD /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

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Question # 2 of 10 (Start time: 11:38:27 AM) **Total Marks:** 1

In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

Select correct option:

- Stop and Wait
- Go-Back-N
- Selective repeat
- Stop-and-wait & Go-back-N

Click here to Save Answer & Move to Next Question

/wEWBgLBivmxC\ /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 3 of 10 (Start time: 11:39:07 AM) **Total Marks:** 1

Sliding window requires that data frames be transmitted _____

Select correct option:

- Sequentially
- Frequently
- Asynchronously
- Non of the given

Click here to Save Answer & Move to Next Question

/wEWBgKIr6CLBg /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 4 of 10 (Start time: 11:40:37 AM) **Total Marks:** 1

Which one is not the function of data link layer?

Select correct option:

- Line discipline
- Flow control

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- Error control
- Network control

Click here to Save Answer & Move to Next Question

/wEWBgKWy4TP /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 5 of 10 (Start time: 11:40:53 AM) **Total Marks:** 1

Flow control is needed to prevent _____.

Select correct option:

- Bit errors
- Overflow of the sender buffer
- Overflow of the receiver buffer
- Collision between sender and receiver

Click here to Save Answer & Move to Next Question

/wEWBgLYmOaZ /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 6 of 10 (Start time: 11:42:09 AM) **Total Marks:** 1

Error control in the data link layer is based on _____.

Select correct option:

- automatic repeat request
- automatic repeat acknowledgment
- automatic send acknowledgment
- automatic send request

Click here to Save Answer & Move to Next Question

/wEWBgKdh9uED /wEPDwUKMTY2N

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Quiz Start Time: 11:37 AM

Question # 7 of 10 (Start time: 11:43:29 AM) **Total Marks:** 1

Data link protocols can be divided into _____ sub-groups.

Select correct option:

- two
- three
- four
- five

Click here to Save Answer & Move to Next Question

/wEWBgLm+qmr(/wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 8 of 10 (Start time: 11:43:50 AM) **Total Marks:** 1

For stop-and-wait ARQ, for n data packets sent, _____ acknowledgments are needed.

Select correct option:

- n
- 2n
- N-1
- N+1

Click here to Save Answer & Move to Next Question

/wEWBgL70P1IAr /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 9 of 10 (Start time: 11:45:20 AM) **Total Marks:** 1

In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

Select correct option:

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- 0 to 63
- 0 to 64
- 1 to 63
- 1 to 64

Click here to Save Answer & Move to Next Question

/wEWBgLvu6vVD /wEPDwUKMTY2N

Quiz Start Time: 11:37 AM

Question # 10 of 10 (Start time: 11:46:52 AM) **Total Marks:** 1

In data link layer, communication requires at least _____ devices working together.

Select correct option:

- 3
- 2
- 4
- 1

Click here to Save Answer & Move to Next Question

/wEWBgLFg9GvB /wEPDwUKMTY2N

Quiz Start Time: 11:52 AM

Question # 1 of 10 (Start time: 11:52:19 AM) **Total Marks:** 1

A timer is set when _____ is (are) sent out.

Select correct option:

- A data frame
- An ACK
- A NAK
- All of given

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Click here to Save Answer & Move to Next Question

/wEWBgLzutK0Bg /wEPDwUKMTY2N

Quiz Start Time: 11:52 AM

Question # 3 of 10 (Start time: 11:54:31 AM) **Total Marks:** 1

Flow control is needed to prevent _____.

Select correct option:

- Collision between sender and receiver
- Overflow of the receiver buffer
- Overflow of the sender buffer
- Bit errors

Click here to Save Answer & Move to Next Question

/wEWBgKEmL6AA /wEPDwUKMTY2N

Quiz Start Time: 11:52 AM

Question # 4 of 10 (Start time: 11:55:39 AM) **Total Marks:** 1

In selective-reject ARQ, only the specific damaged or lost frame is_____.

Select correct option:

- retransmitted

Click here to Save Answer & Move to Next Question

/wEWBgLCoY/iAg /wEPDwUKMTY2N

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Quiz Start Time: 11:52 AM

Question # 5 of 10 (Start time: 11:56:13 AM) **Total Marks:** 1

If the primary wants to receive data, it asks the second-arise if they have anything to send, this is called

Select correct option:

- POLLING
- SELECTING

Click here to Save Answer & Move to Next Question

/wEWBAK3upDD[/wEPDwUKMTY2N

Quiz Start Time: 11:52 AM

Question # 10 of 10 (Start time: 12:02:01 PM) **Total Marks:** 1

Data link control is composed of _____ important functions.

Select correct option:

- 2
- 3
- 4
- 5

Click here to Save Answer & Move to Next Question

/wEWBgLU+4+Fl /wEPDwUKMTY2N

Quiz Start Time: 12:10 PM

Question # 5 of 10 (Start time: 12:12:08 PM) **Total Marks:** 1

Which error detection method consists of just one redundant bit per data unit?

Select correct option:

- Simple parity check

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- Two-dimensional parity check
- CRC
- Checksum

Click here to Save Answer & Move to Next Question

/wEWBgLNyd6bD /wEPDwUKMTY2N

Quiz Start Time: 12:10 PM

Question # 6 of 10 (Start time: 12:13:39 PM) **Total Marks:** 1

In Go-Back-N ARQ, if frames 4, 5 and 6 are received successfully, the receiver may send an ACK _____ to the sender.

Select correct option:

- 5
- 6
- 7
- Any of the given

Click here to Save Answer & Move to Next Question

/wEWBgLA/O+3C /wEPDwUKMTY2N

Quiz Start Time: 12:10 PM

Question # 7 of 10 (Start time: 12:14:36 PM) **Total Marks:** 1

If the data unit is 111111 and the divisor is 1010, what is the dividend at the transmitter?

Select correct option:

- 111111000
- 1111110000
- 111111
- 1111111010

Click here to Save Answer & Move to Next Question

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/wEWBgKt+YqbD /wEPDwUKMTY2N

Quiz Start Time: 12:10 PM

Question # 8 of 10 (Start time: 12:16:06 PM) **Total Marks:** 1

ARQ stands for _____

Select correct option:

- Automatic repeat quantization
- Automatic repeat request
- Automatic retransmission request
- Acknowledge repeat request.

Click here to Save Answer & Move to Next Question

/wEWBgLAjPHDA /wEPDwUKMTY2N

Quiz Start Time: 12:10 PM

Question # 9 of 10 (Start time: 12:16:31 PM) **Total Marks:** 1

For a sliding window of size n-1 (n sequence numbers), there can be a maximum of _____ frames sent but unacknowledged.

Select correct option:

- 0
- N-1
- N
- N+1

Click here to Save Answer & Move to Next Question

/wEWBgLinpqjDgI /wEPDwUKMTY2N

Quiz Start Time: 12:18 PM

Question # 6 of 10 (Start time: 12:20:15 PM) **Total Marks:** 1

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In Full-duplex, the initiator sends data while the responder waits

Select correct option:

- True
- False

Click here to Save Answer & Move to Next Question

/wEWBAKZmvbUE /wEPDwUKMTY2N

Quiz Start Time: 12:18 PM

Question # 10 of 10 (Start time: 12:21:10 PM) **Total Marks:** 1

In CRC there is no error if the remainder at the receiver is _____.

Select correct option:

- Equal to the remainder at the sender
- Zero
- NonZero
- The quotient at the sender

Click here to Save Answer & Move to Next Question

/wEWBgLb5LeHC /wEPDwUKMTY2N

Quiz Start Time: 12:22 PM

Question # 6 of 10 (Start time: 12:22:41 PM) **Total Marks:** 1

Error control in the data link layer is based on _____.

Select correct option:

- automatic repeat request
- automatic repeat acknowledgment
- automatic send acknowledgment
- automatic send request

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Click here to Save Answer & Move to Next Question

/wEWBgKjtttQArI /wEPDwUKMTY2N

Quiz Start Time: 12:22 PM

Question # 8 of 10 (Start time: 12:23:17 PM) **Total Marks:** 1

Flow Control is the responsibility of _____

Select correct option:

- Network Layer
- Transport Layer
- Data Link Layer
- Physical Layer

Click here to Save Answer & Move to Next Question

/wEWBgLgxMW9I /wEPDwUKMTY2N

Quiz Start Time: 12:25 PM

Question # 2 of 10 (Start time: 12:26:03 PM) **Total Marks:** 1

The Hamming code is a method of _____.

Select correct option:

- Error detection
- Error correction
- Error encapsulation
- Error detection & error encapsulation

Click here to Save Answer & Move to Next Question

/wEWBgKmwvq2I /wEPDwUKMTY2N

Quiz Start Time: 12:25 PM

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Question # 10 of 10 (Start time: 12:27:40 PM) **Total Marks:** 1

In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

Select correct option:

- Stop and Wait
- Go-Back-N
- Selective repeat
- Stop-and-wait & Go-back-N

Click here to Save Answer & Move to Next Question

/wEWBgKTsqnIBC

Top

CS 601 DATA COMMUNICATION
FALL 2009 – 12 FEB 2010

Question # 1 of 10

In FDDI, THT stands for:

- Token Hash Timer
- Tier Holding Timer
- Target Holding Timer
- **Token Holding Timer**

Question # 2 of 10

The DSAP and SSAP are addresses used by ____to identify the protocol stack.

- Network
- **MAC**
- LLC
- None of the above

Question # 3 of 10

Repeaters work on the ____Layer/Layers

- Data Link
- **Physical**
- Network
- All of the above

Question # 4 of 10

Bridge is _____ Layer Device

- **Data Link**
- Physical
- Network
- None of the above

Question # 5 of 10

On the transport layer of TCP/IP suit_____ protocols are used

- TCP & IP
- **TCP & UDP**

Question # 6 of 10

Application layer of TCP/IP suit is equivalent of _____layers of OSI Model

- Application, Presentation and Transport
- Application, Session and Transport
- **Application, Presentation and Session**
- None of the above

Question # 7 of 10

A Repeater does not allow us to extend the physical length of network

- True
- **False**

Question # 8 of 10

Shortest frame in HDLC protocols is usually the ____ frame.

CS601 Data Communication Solved MCQs Final Term (AIO)

Which layer in ATM protocol reformats the data received from other networks?

a. Physical
b. Application adaptation
c. Data adaptation
d. ATM
The correct **answer** is b

Which layer in ATM protocol has a 53-byte cell as an end product?

a. ATM
b. Application adaptation
c. Physical
d. Cell transformation
The correct **answer** is a

Which AAL type is designed to support a data stream that has a constant bit rate?

a. AAL1
b. AAL2
c. AAL3/4
d. AAL5
The correct **answer** is a

The VPI of a UNI is bits in length.

a. 12
b. 16
c. 24
d. 8
The correct **answer** is d



In an ATM network, all cells belonging to a single message follow the same and remain in their original order un til they reach their destination.

a. Virtual circuit
b. Transmission path
c. Virtual path
d. None of the above
The correct **answer** is a

A device called a(n) allows frames from an ATM network to be transmitted across a Frame Relay network.

a. FRAD
b. LMI
c. VOFR
d. DLCI
The correct **answer** is a

A provides a connection or a set of connections between switches.

a. Transmission path
b. Virtual circuit
c. Virtual path
d. None of the above
The correct **answer** is b

A _ is the physical connection between an endpoint and a switch or between two switches.

a. Virtual path
b. Transmission path
c. Virtual circuit
d. None of the above

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The correct **answer** is b

On a network that uses NAT, the has a translation table.

a. Router
b. Switch
c. Server
d. None of the above
The correct **answer** is a

Identify the class of IP address 229.1.2.3.

a. Class A
b. Class B
c. Class C
d. Class D
The correct **answer** is d

On a network that uses NAT, initiates the communication.

a. An internal host
b. An external host
c. The router
d. (a) or (b)
The correct **answer** is a

A subnet mask in class B can have _ 1s with the remaining bits 0s.

a. Nine
b. Seventeen
c. Three
d. Fourteen
The correct **answer** is b

A subnet mask in class C can have 1s with the remaining bits 0s.

a. Twenty-five
b. Twelve
c. Seven
d. Ten
The correct **answer** is a

Identify the class of IP address 4.5.6.7.

a. Class A
b. Class B
c. Class C
d. Class D
The correct **answer** is a

Identify the class of IP address 191.1.2.3.

a. Class A
b. Class B
c. Class C
d. Class D
The correct **answer** is b

A subnet mask in class A can have 1s with the remaining bits 0s.

a. Nine
b. Four
c. Thirty-three
d. Three
The correct **answer** is a

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Class _ has the greatest number of hosts per given network address.

a. A
b. B
c. C
d. D
The correct **answer** is a

A subnet mask in class B has nineteen 1s. How many subnets does it define?

a. 128
b. 8
c. 32
d. 64
The correct **answer** is b

In _ routing, the full IP address of a destination is given in the routing table.

a. Next-hop
b. Host-specific
c. Network-specific
d. Default
The correct **answer** is b

A subnet mask in class C has twenty-five 1s. How many subnets does it define?

a. 0
b. 2
c. 8
d. 16
The correct **answer** is b





Given the IP address 180.25.21.172 and the subnet mask 255.255.192.0, what is the subnet address?

a. 180.25.21.0
b. 180.25.8.0
c. 180.25.0.0
d. 180.0.0.0
The correct **answer** is c

Given the IP address 18.250.31.14 and the subnet mask 255.240.0.0, what is the subnet address?

a. 18.9.0.14
b. 18.0.0.14
c. 18.31.0.14
d. 18.240.0.0
The correct **answer** is d

Is a client-server program that provides an IP address, subnet mask, IP address of a router, and IP address of a name server to a computer.

a. NAT
b. DHCP
c. CIDR
d. ISP
The correct **answer** is b

In _, each packet of a message need not follow the same path from sender to receiver.

a. The virtual approach to packet switching
b. The datagram approach to packet switching

c. Message switching

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d. None of the above
The correct **answer** is b

An IP address consists of _ bits.

a. 8
b. 32
c. 4
d. Any of the above
The correct **answer** is b

On a network that uses NAT, the router can use global address(es).

a. A pool of
b. One
c. Two
d. None of the above
The correct **answer** is a

In _ routing, the mask and destination addresses are both 0.0.0.0 in the routing table.

a. Default
b. Next-hop
c. Network-specific
d. Host-specific
The correct **answer** is a

A subnet mask in class A has fourteen 1s. How many subnets does it define?

a. 64
b. 128
c. 32
d. 8
The correct **answer** is a

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In which type of switching do all the packets of a message follow the same channels of a path?

a. Virtual circuit packet switching
b. Message switching
c. Datagram packet switching
d. None of the above
The correct **answer** is a

In _ routing, the destination address is a network address in the routing table.

a. Network-specific
b. Host-specific
c. Next-hop
d. Default
The correct **answer** is a

Given the IP address 201.14.78.65 and the subnet mask 255.255.255.224, what is the subnet address?

a. 201.14.78.64
b. 201.14.78.32
c. 201.14.78.65
d. 201.14.78.12
The correct **answer** is a

In error reporting the encapsulated ICMP packet goes to .

a. The receiver
b. A router

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c. The sender
d. Any of the above
The correct **answer** is c

When the hop-count field reaches zero and the destination has not been reached, a error message is sent.

a. Destination-unreachable
b. Redirection
c. Time-exceeded
d. Parameter-problem
The correct **answer** is c

An ARP request is to .

a. Multicast; one host
b. Unicast; all hosts
c. Broadcast; all hosts
d. Unicast; one host
The correct **answer** is c

What is the maximum size of the data portion of the IP datagram?

a. 65,515 bytes
b. 65,535 bytes
c. 65,475 bytes
d. 65,460 bytes
The correct **answer** is a

A best-effort delivery service such as IP does not include .

a. Error correction
b. Error checking
c. Datagram acknowledgment
d. All the above
The correct **answer** is d



An HLEN value of decimal 10 means .

a. There is 10 bytes of options
b. There is 40 bytes in the header
c. There is 40 bytes of options
d. There is 10 bytes in the header
The correct **answer** is b

In IPv4, what is the value of the total length field in bytes if the header is 28 bytes and the data field is 400 bytes?

a. 407
b. 107
c. 428
d. 427
The correct **answer** is c

If the fragment offset has a value of 100, it means that .

a. The first byte of the datagram is byte 800
b. The datagram has not been fragmented
c. The datagram is 100 bytes in size
d. The first byte of the datagram is byte 100
The correct **answer** is a

What is needed to determine the number of the last byte of a fragment?

a. Identification number
b. Offset number

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c. Total length
d. (b) and (c)
The correct **answer** is d

The IP header size .

a. Depends on the MTU
b. Is 20 to 60 bytes long
c. Is 20 bytes long
d. Is 60 bytes long
The correct **answer** is b

If a host needs to synchronize its clock with another host, it sends a _ message.

a. Time-exceeded
b. Time-stamp-request
c. Source-quench
d. Router-advertisement
The correct **answer** is b

Which of the following is a necessary part of the IPv6 datagram?

a. Base header
b. Extension header
c. Data packet from the upper layer
d. (a) and (c)
The correct **answer** is d

Is a dynamic mapping protocol in which a physical address is found for a given IP address.

a. RARP
b. ICMP
c. ARP
d. None of the above
The correct **answer** is c



A router reads the address on a packet to determine the next hop.

a. MAC
b. Source
c. IP
d. ARP
The correct **answer** is c

The target hardware address on an Ethernet is _ in an ARP request.

a. Variable
b. Class-dependent
c. 0x000000000000
d. 0.0.0.0
The correct **answer** is c

When not all fragments of a message have been received within the designated amount of time, a error message is sent.

a. Time-exceeded
b. Parameter-problem
c. Source-quench
d. Time-stamp-request
The correct **answer** is a

A can learn about network by sending out a router-solicitation packet.
a. Router; routers
b. Router; hosts

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c. Host; routers
d. Host; hosts
The correct **answer** is c

Which of the following types of ICMP messages needs to be encapsulated into an IP datagram?
a. Time-exceeded
b. Multicasting
c. Echo reply
d. All the above
The correct **answer** is d

The purpose of echo request and echo reply is to .

a. Report errors
b. Check packet lifetime
c. Check node-to-node communication
d. Find IP addresses
The correct **answer** is c

An ARP reply is to .

a. Unicast; one host
b. Broadcast; all hosts
c. Multicast; one host
d. Unicast; all hosts
The correct **answer** is a

One method to alert a source host of congestion is the message.

a. Source-quench
b. Redirection
c. Echo-request
d. Destination-unreachable
The correct **answer** is a

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A time-exceeded message is generated if .

a. The round-trip time between hosts is close to zero
b. The time-to-live field has a zero value
c. Fragments of a message do not arrive within a set time
d. (b) and (c)
The correct **answer** is d

To determine whether a node is reachable, message can be sent.

a. An echo-request
b. An echo-reply
c. A redirection
d. A source-quench
The correct **answer** is a

In IPv6, the field in the base header restricts the lifetime of a datagram.

a. Version
b. Hop limit
c. Priority
d. Next-header
The correct **answer** is b

In IPv4, what is the length of the data field given an HLEN value of 12 and total length value of 40,000?

a. 39,952
b. 39,988
c. 40,012
d. 40,048

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The correct **answer** is a

A datagram is fragmented into three smaller datagrams. Which of the following is true?

a. The do not fragment bit is set to 1 for all three datagrams.
b. The identification field is the same for all three datagrams.
c. The more fragment bit is set to 0 for all three datagrams.
d. The offset field is the same for all three datagrams.
The correct **answer** is b

Errors in the header or option fields of an IP datagram require a error message.

a. Source-quench
b. Parameter-problem
c. Router-solicitation
d. Redirection
The correct **answer** is b

The cost field of a router's first table from itself always has a value of .

a. Some positive integer
b. 0
c. 1
d. Infinity
The correct **answer** is b

A routing table contains .

a. The destination network ID
b. The hop count to reach the network
c. The router ID of the next hop
d. All the above
The correct **answer** is d



Router B receives an update from router A that indicates Net1 is two hops away. The next update from A says Net1 is five hops away. What value is entered in B's routing table for Net1? Assume the basic RIP is being used.

a. 6
b. 7
c. 2
d. 3
The correct **answer** is a

If the routing table contains four new entries, how many update messages must the router send to its one neighbor router?

a. 3
b. 4
c. 1
d. 2
The correct **answer** is c

An area border router can be connected to .

a. Only another router
b. Only another network
c. Only another area border router
d. Another router or another network
The correct **answer** is d

Which of the following usually has the least number of connections to other areas?
a. A transient link
b. A stub link

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c. An area
d. An autonomous system
The correct **answer** is b

Is used in a dense multicast environment while is used in a sparse multicast environment.

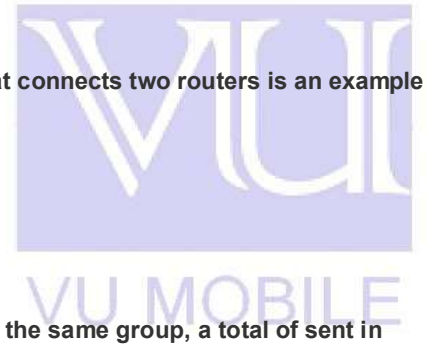
a. PIM-SM; PIM-DM
b. PIM; PIM-DM
c. PIM; PIM-SM
d. PIM-DM; PIM-SM
The correct **answer** is d

When a multicast router is not directly connected to another multicast router, a can be formed to connect the two.

a. Logical core
b. Spanning tree
c. Physical tunnel
d. Logical tunnel
The correct **answer** is d

Which type of network using the OSPF protocol can have five routers attached to it?

a. Transient
b. Stub
c. Point-to-point
d. All the above
The correct **answer** is a





A WAN using the OSPF protocol that connects two routers is an example of a type of OSPF network.

a. Stub
b. Point-to-point
c. Transient
d. Virtual
The correct **answer** is b

If four hosts on a network belong to the same group, a total of sent in

a. One membership report is
b. Two membership reports are
c. Three membership reports are
d. Four membership reports are
The correct **answer** is b

A one-to-all communication between a source and all hosts on a network is classified as a communication.

a. Unicast
b. Multicast c.
Broadcast d.
(a) and (b)
The correct **answer** is c

Which type of BGP message announces a route to a new destination?

a. Update
b. Open
c. Keep-alive
d. Notification
The correct **answer** is a

Which layer produces the OSPF message?
a. Data link
b. Transport

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c. Application
d. Network
The correct **answer** is d

Which of the following is an exterior routing protocol?

a. RIP
b. OSPF
c. BGP
d. (a) and (b)
The correct **answer** is c

An area is .

a. Composed of at least two ASs
b. Another term for an internet
c. Part of an AS
d. A collection of stub areas
The correct **answer** is c

In an autonomous system with n areas, how many areas are connected to the backbone?

a. 1
b. n
c. n – 1
d. n + 1
The correct **answer** is c

Which of the following is an interior routing protocol?

a. RIP
b. OSPF
c. BGP
d. (a) and (b)
The correct **answer** is d

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OSPF is based on .

a. Distance vector routing
b. Path vector routing
c. Link state routing
d. (a) and (b)
The correct **answer** is c

BGP is based on .

a. Distance vector routing
b. Link state routing
c. Path vector routing
d. (a) and (b)
The correct **answer** is c

Which type of BGP message creates a relationship between two routers?

a. Keep-alive
b. Open
c. Update
d. Notification
The correct **answer** is b

Which type of network using the OSPF protocol always consists of just two connected routers?

a. Transient
b. Stub
c. Point-to-point

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d. Virtual
The correct **answer** is c

Which type of network using the OSPF protocol is the result of a break in a link between two routers?

a. Virtual
b. Point-to-point
c. Transient
d. Stub
The correct **answer** is a

Which type of BGP message is sent by a router to close a connection?

a. Open
b. Update
c. Notification
d. Keep-alive
The correct **answer** is c

An IGMP query is sent from a to a .

a. Router; host or router
b. Host; host
c. Host; router
d. Router; router
The correct **answer** is a

Which type of BGP message is sent by a system to notify another router of the sender's existence?

a. Keep-alive
b. Notification
c. Open
d. Update
The correct **answer** is a



An Ethernet LAN using the OSPF protocol with five attached routers can be called a network.

a. Point-to-point
b. Stub
c. Transient
d. Virtual
The correct **answer** is c

In distance vector routing each router receives information directly from .

a. Its neighbors only
b. Every router on the network
c. Every router less than two units away
d. A table stored by the network hosts
The correct **answer** is a

A system uses group-shared trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of different trees.

a. 20
b. 100
c. 5
d. 500
The correct **answer** is c

Is a multicast routing protocol using source-based trees.
a. DVRMP
b. MOSPF

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c. CBT
d. (a) and (b)
The correct **answer** is d

Pruning and grafting are strategies used in .

a. RPM
b. RPF
c. RPB
d. All the above
The correct **answer** is a

In distance vector routing a router sends out information .

a. Only when there is a change in its table
b. Only when a new host is added
c. At regularly scheduled intervals
d. Only when a new network is added
The correct **answer** is c

The field of the IGMP message is all zeros in a query message.

a. Version
b. Type
c. Group address
d. Checksum
The correct **answer** is c

The field of the IGMP message is 0x11 for a query message.

a. Version
b. Type
c. Checksum
d. d. (a) and (b)
The correct **answer** is d

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A one-to-many communication between a source and a specific group of hosts is classified as a communication.

a. Multicast
b. Unicast
c. Broadcast
d. (a) and (b)
The correct **answer** is a

A one-to-one communication between a source and one destination is classified as a communicati on.

a. Unicast
b. Multicast
c. Broadcast
d. d. (a) and (b)
The correct **answer** is a

Is a multicasting application.

a. Teleconferencing
b. Distance learning
c. Information dissemination
d. All the above
The correct **answer** is d

A is a data structure with nodes and edges and a hierarchical structure.

a. Graph
b. Leaf

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c. Tree
d. Root
The correct **answer** is c

A system uses source-based trees for multicasting. If there are 100 sources and 5 groups, there is a maximum of different trees.

a. 5
b. 20
c. 100
d. 500
The correct **answer** is d

In a tree approach to multicasting, the combination of source and group determines the tree.

a. Shortest-group
b. Source-based
c. Spanning-source
d. Group-shared
The correct **answer** is b

In a tree approach to multicasting, the group determines the tree.

a. Group-shared
b. Spanning-source
c. Shortest-group
d. Source-based
The correct **answer** is a

Is a multicast routing protocol using group-shared trees.

a. DVRMP
b. MOSPF
c. CBT
d. (a) and (b)
The correct **answer** is c



In _ a network can receive a multicast packet from a particular source only through a designated parent router.

a. RPF
b. RPM
c. RPB
d. All the above
The correct **answer** is c

Dijkstra's algorithm is used to .

a. Create LSAs
b. Flood an internet with information
c. Create a link state database
d. Calculate the routing tables
The correct **answer** is d

A message tells an upstream router to stop sending multicast messages for a specific group through a specific router.

a. Graft
b. Prune
c. Weed
d. Plum
The correct **answer** is b

The is used by a router in response to a received-leave report.

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a. Special query message
b. General query message
c. Membership report
d. Leave report
The correct **answer** is a

RIP is based on .

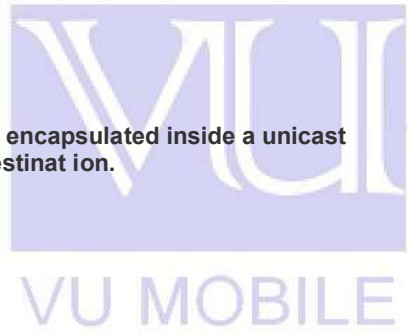
a. Link state routing
b. Dijkstra's algorithm
c. Path vector routing
d. Distance vector routing
The correct **answer** is d

A message tells an upstream router to start sending multicast messages for a specific group through a specific router.

a. Weed
b. Prune
c. Plum
d. Graft
The correct **answer** is d

Uses multicast link state routing concepts to create source-based trees.

a. DVMRP
b. CBT
c. BVD
d. MOSPF
The correct **answer** is d





In the protocol, a multicast packet is encapsulated inside a unicast packet with the core router as the destinat ion.

a. DVMRP
b. CBT
c. MOSPF
d. BVD
The correct **answer** is b

The is an IGMP message.

a. Query message
b. Membership report
c. Leave report
d. All the above
The correct **answer** is d

The defines the client program.

a. Well-known port number
b. Ephemeral port number
c. IP address
d. Physical address
The correct **answer** is b

The timer is used in the termination phase.

a. Retransmission
b. Time-waited
c. Persistence
d. Keep-alive
The correct **answer** is b

Which is a legal port address?

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a. 0
b. 513
c. 65,535
d. All the above
The correct **answer** is d

The definition of reliable delivery includes .

a. Error-free delivery
b. Receipt of the complete message
c. In-order delivery
d. All the above
The correct **answer** is d

Which of the following does UDP guarantee?

a. Acknowledgments to the sender
b. Flow control
c. Sequence numbers on each user datagram
d. None of the above
The correct **answer** is d

The source port address on the UDP user datagram header defines .

a. The sending computer
b. The receiving computer
c. The application program on the receiving computer
d. The application program on the sending computer
The correct **answer** is d





A host can be identified by while a program running on the host can be identified by .

a. A port number; an IP address
b. An IP address; a port number
c. An IP address; a host address
d. An IP address; a well-known port
The correct **answer** is b

Which of the following is not part of the UDP user datagram header?

a. Source port address
b. Checksum
c. Length of header
d. Destination port address
The correct **answer** is c

The defines the server program.

a. IP address
b. Well-known port number
c. Ephemeral port number
d. Physical address
The correct **answer** is b

IP is responsible for communication while TCP is responsible for _ communication.

a. Process-to-process; node-to-node
b. Host-to-host; process-to-process
c. Process-to-process; host-to-host
d. Node-to-node; process-to-process
The correct **answer** is b
The timer is needed to handle the zero window-size advertisement.

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a. Persistence
b. Keep-alive
c. Retransmission
d. Time-waited
The correct **answer** is a

Connection establishment involves a handshake.

a. Three-way
b. One-way
c. Two-way
d. None of the above
The correct **answer** is a

A special segment called a probe is sent by a sending TCP when the timer goes off.

a. Persistence
b. Transmission
c. Keep-alive
d. Time-waited
The correct **answer** is a

The address uniquely identifies a running application program.

a. IP address
b. NIC
c. Socket
d. Host
The correct **answer** is c

The field is used to order packets of a message.

a. Sequence number
b. Acknowledgment number
c. Urgent pointer
d. Checksum
The correct **answer** is a





The field is used for error detection.

a. Sequence number
b. Acknowledgment number
c. Urgent pointer
d. Checksum
The correct **answer** is d

Multiply the header length field by to find the total number of bytes in the TCP header.

a. 4
b. 6
c. 8
d. 2
The correct **answer** is a

Urgent data require the urgent pointer field as well as the URG bit in the field.

a. Sequence number
b. Control
c. Offset
d. Reserved
The correct **answer** is b

In , data are sent or processed at a very inefficient rate, such as 1 byte at a time.
a. Silly window syndrome
b. Sliding window syndrome

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c. Nagle's syndrome
d. Delayed acknowledgment
The correct **answer** is a

The timer keeps track of the time between the sending of a segment and the receipt of an acknowledgment.

a. Time-waited
b. Retransmission
c. Persistence
d. Keep-alive
The correct **answer** is b

To prevent silly window syndrome created by a receiver that processes data at a very slow rate, can be used.

a. Clark's solution
b. Nagle's algorithm
c. Delayed acknowledgment
d. (a) or (c)
The correct **answer** is d

To prevent silly window syndrome created by a sender that sends data at a very slow rate, can be used.

a. Nagle's algorithm
b. Clark's solution
c. Delayed acknowledgment
d. (a) or (c)
The correct **answer** is a

An ACK number of 1000 always means that .

a. 999 bytes has been successfully received
b. 1000 bytes has been successfully received
c. 1001 bytes has been successfully received
d. None of the above
The correct **answer** is d

VU MOBILE



The timer prevents a long idle connection between two TCPs.

a. Keep-alive
b. Time-waited
c. Retransmission
d. Persistence
The correct **answer** is a

UDP and TCP are both _ layer protocols.

a. Physical
b. Data link
c. Network
d. Transport
The correct **answer** is d

Which of the following functions does UDP perform?

a. End-to-end reliable data delivery
b. Process-to-process communication
c. Host-to-host communication
d. All the above
The correct **answer** is b

UDP needs the address to deliver the user datagram to the correct application program.

a. Application
b. Internet
c. Physical

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d. Port
The correct **answer** is d

Karn's algorithm is used in calculations by the timer.

a. a. Time-waited
b. Retransmission
c. Persistence
d. Keep-alive
The correct **answer** is b

Slow start is used in conjunction with as a TCP congestion control strategy.

a. Multiplicative increase
b. Multiplicative decrease
c. Additive increase
d. Additive decrease
The correct **answer** is c

The maximum length of time that traffic is generated at the peak rate is called the .

a. Effective bandwidth
b. Average data rate
c. Maximum burst size
d. Constant bit rate
The correct **answer** is c

For a system using TCP, the sender window size is determined by the window size.

a. Receiver
b. Sender
c. Congestion
d. (a) and (c)
The correct **answer** is d



Traffic features sudden data rate changes in very short periods of time.

a. Constant-bit-rate
b. Bursty
c. Variable-bit-rate
d. Peak-bit-rate
The correct **answer** is b

When the load is greater than the capacity, the delay .

a. Decreases
b. Goes to infinity
c. Increases linearly
d. Goes to zero
The correct **answer** is b

Is a closed-loop mechanism to alleviate congestion.

a. A choke point
b. Implicit signaling
c. Explicit signaling
d. All the above
The correct **answer** is d

The FECN informs the of congestion while the BECN informs the _ of congestion.

a. Sender; destination
b. Interface; sender
c. Destination; interface

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d. Destination; sender
The correct **answer** is d

The is the maximum data rate of the traffic.

a. Average data rate
b. Maximum burst size
c. Effective bandwidth
d. Peak data rate
The correct **answer** is d

Is a flow characteristic in which the delay varies for packets belonging to the same flow.

a. Choke point
b. Additive increase
c. Jitter
d. Throughput
The correct **answer** is b

In _ queuing the first packet into the queue is the first packet out of the queue.

a. Priority
b. Weighted fair
c. FIFO
d. LIFO
The correct **answer** is c

In Frame Relay the transmission rate can never exceed .

a. Bc
b. The access rate
c. Be
d. CIR
The correct **answer** is b

VU MOBILE



Measures the variation in cell transmission time.

a. SCR
b. CVDT
c. PCR
d. MCR
The correct **answer** is b

If the SCR is 60,000, the PCR is 70,000, and the MCR is 55,000, what is the minimum number of cells that can be sent per second?

a. 60,000
b. 70,000
c. 55,000
d. 5000
The correct **answer** is c

The traffic shaping method gives a host credit for its idle time.

a. Leaky bucket
b. Traffic bucket
c. Token bucket
d. Bursty bucket
The correct **answer** is c

A flow-based QoS model designed for IP is called .

a. RSVP
b. Integrated Services
c. Differentiated Services

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d. Multicast trees
The correct **answer** is b

A signaling protocol that helps IP create a flow is called .

a. RSVP
b. Integrated Services
c. Differentiated Services
d. Multicast trees
The correct **answer** is a

RSVP uses _ messages.

a. Path
b. Resv
c. Resource
d. (a) and (b)
The correct **answer** is d

In an RSVP reservation style called filter, the router creates a single reservation that can be shared by a set of flows.

a. Fixed
b. Shared explicit
c. Wild card
d. All the above
The correct **answer** is b

Differentiated Services was designed to handle the problem associated with Integrated Services.

a. Stability
b. Reservation
c. Scalability
d. All the above
The correct **answer** is c



A is a Differentiated Services traffic conditioner.

a. Meter
b. Marker
c. Shaper
The correct **answer** is c

What is the relationship between the access rate and the CIR?

a. CIR plus Be is equal to the access rate.
b. CIR is always equal to the access rate.
c. CIR is greater than the access rate.
d. CIR is less than the access rate.
The correct **answer** is d

If the maximum CTD is 10 µs and the minimum CTD is 1 µs, the _ is 9 µs.

a. CDV
b. CLR
c. CTD
d. CER
The correct **answer** is a

A Frame Relay network is committed to transfer bps without discarding any frames.

a. Be
b. Bc
c. CIR

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d. (a) and (b)
The correct **answer** is b

The effective bandwidth is based on .

a. Average data rate
b. Peak data rate
c. Maximum burst size
d. All the above
The correct **answer** is d

The cell is the difference between the CTD maximum and minimum.

a. Delay variation
b. Error ratio
c. Loss ratio
d. Transfer delay
The correct **answer** is a

The cell is the ratio of lost cells to cells sent.

a. Delay variation
b. Error ratio
c. Loss ratio
d. Transfer delay
The correct **answer** is c

The service class is particularly suitable for applications with bursty data.

a. CBR
b. ABR
c. VBR
d. UBR
The correct **answer** is b



The service class is suitable for customers who need real-time video transmission without compression.

a. ABR
b. CBR
c. VBR
d. UBR
The correct **answer** is b

The is greater than the SCR.

a. MCR
b. CVDT
c. PCR
d. All the above
The correct **answer** is c

The is the fraction of the cells delivered in error.

a. CLR
b. CER
c. CTD
d. CDV
The correct **answer** is b

When added to Be, Bc should be less than the .

a. CIR
b. Committed burst size

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c. Access rate
d. (a) and (b)
The correct **answer** is c

X

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FINAL TERM EXAMINATION
Spring 2011

Question No: 1 (Marks: 1) - Please choose

The inversion of the level at 1 bit is called as _____

► NRZ-L

► **NRZ-I Page 73**

► RZ

Question No: 2 (Marks: 1) - Please choose

In selective-reject ARQ, only the specific damaged or lost frame is_____.

► **Retransmitted (Page 200)**

► Forwarded

► Selected

► Rejected

Question No: 3 (Marks: 1) - Please choose

YMODEM has _____Byte of data unit.

► **1024 Page 205**

► 256

► 128

► 512

Question No: 4 (Marks: 1) - Please choose

Which of the following sublyer, resolves the contention for the shared media

► **MAC (Page 219)**

► LLC

► Physical

Question No: 5 (Marks: 1) - Please choose

Like 10 Base 5, 10 Base 2 is a _____ topology LAN

► Ring

► Mesh

► Star

► **Bus (Page 227)**

Question No: 6 (Marks: 1) - Please choose

At the CRC generator, _____ added to the data unit after the division process

► **0s are (Page 176)**
► 1s are
► The polynomial
► The CRC remainder is

Question No: 7 (Marks: 1) - Please choose

Flow control is needed to prevent _____.

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 8 (Marks: 1) - Please choose

In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 9 (Marks: 1) - Please choose

In 56K Modems Max Uploading speed is _____ bytes and downloading speed is _____ byte.

- 40K, 56K
- **33.6K, 56K (Page 117)**
- 56K, 33.6K
- None of given

Question No: 10 (Marks: 1) - Please choose

If db is amplified then attenuation is ----------

- **Positive (Page 142)**
- Negative
- Zero
- None of the above

Question No: 11 (Marks: 1) - Please choose

Amplifiers are used to _____the signal to heat.

- **Amplify (Page 142)**
- Rectify
- Testify
- Nullify

Question No: 12 (Marks: 1) - Please choose

_____requires the maximum number of I/O ports.

- Bus
- Star
- **Mesh (Page 29)**

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- Ring

Question No: 13 (Marks: 1) - Please choose

There are _____ basic categories of multiplexing.

- **3 (Page 148)**
- 4
- 2
- 5

Question No: 14 (Marks: 1) - Please choose

In _____ transmission, bits are transmitted over a single wire, one at a time.

- Asynchronous serial
- Synchronous serial
- **Parallel (Page 98)**
- Asynchronous & Synchronous serial

Question No: 15 (Marks: 1) - Please choose

In_____ transmission, bits are transmitted over their own wires

- Asynchronous serial
- Synchronous serial
- **Parallel**

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter4/mixed_quiz.html

- Asynchronous & Synchronous serial

Question No: 16 (Marks: 1) - Please choose

EIA 232 allows for a maximum bit rate of _____Kbps.

- 40
- 30
- **20 (Page 104)**
- 10

Question No: 17 (Marks: 1) - Please choose

In CRC the quotient at the sender _____

- Becomes the dividend at the receiver
- Becomes the divisor at the receiver
- **Is discarded**

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

- Is the remainder

Question No: 18 (Marks: 1) - Please choose

In line discipline after the data transmission, the sending system finishes with an _____ frame

- **EOT (Page 189)**
- EKT
- ENT
- ESP

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FINALTERM EXAMINATION
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Question No: 1 (Marks: 1) - Please choose one
Encryption and encoding are the same terms.

► True
► **False (Page 52)**

Question No: 2 (Marks: 1) - Please choose one
Traditional modems are wide spread now to a data rate of _____.

► **56 Kbps (Page 115)**
► 72 Kbps
► 42 Kbps
► 96 Kbps

Question No: 3 (Marks: 1) - Please choose one
Bi phase encoding is a type of bipolar encoding in which we use two voltage levels.

► True
► **False (Page 73)**

Question No: 4 (Marks: 1) - Please choose one
The _____ layer changes bits into electromagnetic signals.

► **physical** http://www.ee.surrey.ac.uk/Projects/CAL/networks/Physical_Layer.htm
► data link
► transport
► none of given

Question No: 5 (Marks: 1) - Please choose one
Which is not an element of protocol?

► Semantics
► Timing
► **Communication service module (Page 19)**

Question No: 6 (Marks: 1) - Please choose one
A telephone network is an example of a _____ network.

► Packet-switched
► **Circuit-switched (Page 38)**

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► Message-switched
► none of the given

Question No: 7 (Marks: 1) - Please choose one
The bit rate always equals the baud rate in which type of signal?

► **FSK (Page 86)**
► QAM
► 4-PSK
► PSK

Question No: 8 (Marks: 1) - Please choose one
Secondary hub in a tree must be a passive hub.

► True
► **False (Page 31)**

Question No: 9 (Marks: 1) - Please choose one
In case of uploading at the switching station, data is converted to digital signal using _____.

► TCP
► **PCM (Page 116)**
► ICP
► TDM

Question No: 10 (Marks: 1) - Please choose one
Category 5 UTP cable is used for data transmission of upto_____.

► **100 Mbps (Page 123)**
► 200 Mbps
► 250 Mbps
► 400 Mbps

Question No: 11 (Marks: 1) - Please choose one
Which of the following primarily uses guided media?

► Cellular telephone system
► **Local telephone system (Page 120)**
► Satellite communications
► Radio broadcasting

Question No: 12 (Marks: 1) - Please choose one
Ultra high-frequency waves always use _____ propagation.

► Ground
► Sky

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► **Line of Sight (Page 136)**
► Space

Question No: 13 (Marks: 1) - Please choose one
Distortion occurs in a _____ signal.

► Rectified
► **Composite (Page 141)**
► Amplified
► none of the given

Question No: 14 (Marks: 1) - Please choose one
Which of the following are not used to measure the performance of TX Media.

► Throughput
► Propagation Speed
► Propagation Time
► **none of the given (Page 144)**

Question No: 15 (Marks: 1) - Please choose one
A portion of the path that carries TX b/w a given pair of devices is known as _____.

► Node
► Bridge
► **Channel (Page 147)**
► Gateway

Question No: 16 (Marks: 1) - Please choose one
_____ takes data from one high speed line and breaks it into portions.

► Multiplexing
► **Inverse multiplexing (Page 158)**
► Inverse subtraction
► Inverse addition

Question No: 17 (Marks: 1) - Please choose one
The _____ layer is the layer closest to the transmission medium.

► **physical**
► data link
► network
► transport
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Question No: 18 (Marks: 1) - Please choose one
In primary-secondary communication _____ is always the initiator of a session

- ► **Primary (Page 189)**
- ► Secondary
- ► Sender
- ► Receiver

Question No: 19 (Marks: 1) - Please choose one
YMODEM has _____Byte of data unit.

- ► **1024 (Page 205)**
- ► 256
- ► 128
- ► 512

Question No: 20 (Marks: 1) - Please choose one
_____ coordinates the amount of data that can be sent before receiving acknowledgment

- ► **flow control (Page 186)**
- ► error control
- ► data control

Question No: 21 (Marks: 1) - Please choose one
If the ASCII character H is sent and the character I is received, what type of error is this?

- ► **Single-bit (Page 169)**
- ► Multiple-bit
- ► Burst
- ► Recoverable

Question No: 22 (Marks: 1) - Please choose one
In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

- ► Stop-and-wait
- ► Go-Back-N
- ► **Selective reject (Page 200)**
- ► Stop-and-wait & Go-back-N

Question No: 23 (Marks: 1) - Please choose one
Data link protocols can be divided into _____ sub-groups.

- ► **two (Page 202)**
- ► three
- ► four
- ► five

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Question No: 24 (Marks: 1) - Please choose one
If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is _____

- ► Even
- ► **Odd (Page 173)**
- ► Indeterminate
- ► 42

Question No: 25 (Marks: 1) - Please choose one
In Y-MODEM Multiple files can be sent simultaneously

- ► **True (Page 205)**
- ► False

Question No: 26 (Marks: 1) - Please choose one
The PDU has no flag fields, no CRC, and no station address

- ► **TRUE (Page 220)**
- ► FALSE

Question No: 27 (Marks: 1) - Please choose one
Check sum method is used for _____ layers.

- ► Physical
- ► Application
- ► Transport
- ► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 28 (Marks: 1) - Please choose one
Repeater is an amplifier, not a regenerator.

- ► True
- ► **False (Page 240)**

Question No: 29 (Marks: 1) - Please choose one
RARP stands for Reverse Address Resolution Protocol.

- ► **True (Page 244)**
- ► False

Question No: 30 (Marks: 1) - Please choose one
The BNC-T connector is a T-shaped device with _____ ports

- ► **Three (Page 228)**
- ► Two
- ► Four
- ► Five

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FINALTERM EXAMINATION
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Question No: 1 (Marks: 1) - Please choose one
When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- ► physical
- ► **transport**
- ► application
- ► none of the given

http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter2/multiple_choice_quiz.html

Question No: 2 (Marks: 1) - Please choose one
A periodic signal completes one cycle in 0.001 s. What is the frequency?

- ► 1 Hz
- ► 100 Hz
- ► **1 KHz (Page 61)**
- ► 1 MHz

Question No: 3 (Marks: 1) - Please choose one
Zero crossing bandwidth is also called as equivalent noise bandwidth.

- ► True
- ► **False (Page 67)**

Question No: 4 (Marks: 1) - Please choose one
Amplitude in ASK is more resistive to EMI and Noise.

- ► True
- ► **False (Page 87)**

Question No: 5 (Marks: 1) - Please choose one
If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

- ► 5 KHz
- ► **10 KHz (Page 95)**
- ► 200 KHz
- ► 530 KHz

Question No: 6 (Marks: 1) - Please choose one
There are _____ types of serial transmission:

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► 1
► **2 (Page 99)**
► 3
► 4

Question No: 7 (Marks: 1) - Please choose one
Synchronous transmission has _____.

► a start bit
► a stop bit
► gaps between bytes
► **none of the given (page 99)**

Question No: 8 (Marks: 1) - Please choose one
Which of the following is an example of ITU-T modem standards?

► T-series
► X-series
► N-series
► **V-series (Page 114)**

Question No: 9 (Marks: 1) - Please choose one
The maximum data rate in the uploading direction is still _____.

► 26.6 Kbps
► **33.6 Kbps (Page 117)**
► 36.6 Kbps
► 46.6 Kbps

Question No: 10 (Marks: 1) - Please choose one
Category 5 UTP cable is used for data transmission of upto_____.

► **100 Mbps (Page 123)**
► 200 Mbps
► 250 Mbps
► 400 Mbps

Question No: 11 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

► Conical
► **Barrel (Page 131)**
► Circular
► Rectangular

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Question No: 12 (Marks: 1) - Please choose one
The VLF and LF bands use _____ propagation for communications.

- ► Ground
- ► Sky
- ► **Line of sight (Page 134)**
- ► Space

Question No: 13 (Marks: 1) - Please choose one
Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- ► **Single (Page 147)**
- ► Multi
- ► Single and Multi
- ► none of the given

Question No: 14 (Marks: 1) - Please choose one
Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- ► **Interleaving (Page 158)**
- ► Addition
- ► Subtraction
- ► None of the given

Question No: 15 (Marks: 1) - Please choose one
_____ takes data from one high speed line and breaks it into portions.

- ► Multiplexing
- ► **Inverse multiplexing (Page 158)**
- ► Inverse subtraction
- ► Inverse addition

Question No: 16 (Marks: 1) - Please choose one
A traditional telephone line has a bandwidth of _____.

- ► **3000Hz (Page 111)**
- ► 4000 Hz
- ► 2000 MHz
- ► 4000 MHz

Question No: 17 (Marks: 1) – Please choose one
If the ASCII character H is sent and the character I is received, what type of error is this?

- ► **Single-bit (Page 169)**
- ► Multiple-bit

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► Burst
► Recoverable

Question No: 18 (Marks: 1) - Please choose one
At the CRC generator, _____ added to the data unit after the division process

► **0s are**
► 1s are
► The polynomial
► The CRC remainder is
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 19 (Marks: 1) - Please choose one
Error control in the data link layer is based on _____

► **automatic repeat request (Page 196)**
► automatic repeat acknowledgment
► automatic send acknowledgment

Question No: 20 (Marks: 1) - Please choose one
In line discipline the initiator first transmits a frame called an _____

► **Enquiry (Page 189)**
► Acknowledgment
► NAK
► Request

Question No: 21 (Marks: 1) - Please choose one
Primary device uses _____ to receive transmission from the secondary devices.

► ACK
► ENQ
► **POLL (Page 191)**

Question No: 22 (Marks: 1) - Please choose one
Flow control is needed to prevent _____.

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 23 (Marks: 1) - Please choose one
For stop-and-wait ARQ, for N data packets sent, _____ acknowledgments are needed.

► **N**

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► 2N
► N-1
► N+1

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Question No: 24 (Marks: 1) - Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 25 (Marks: 1) - Please choose one
HDLC is an acronym for _____.

► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit

Question No: 26 (Marks: 1) - Please choose one
Token Bus has no commercial application in data communications

► **True (Page 232)**
► False

Question No: 27 (Marks: 1) - Please choose one
The BNC-T connector is a T-shaped device with _____ ports

► **Three (Page 228)**
► Two
► Four
► Five

Question No: 28 (Marks: 1) - Please choose one
Each station in the Token Ring regenerates the frame.

► **True (Page 234)**
► False

Question No: 29 (Marks: 1) - Please choose one
Repeater works on _____ layer.

► Data Link
► Physical
► **Network (224)**
► Application

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Question No: 30 (Marks: 1) - Please choose one
Trunks are transmission media such as _____ that handle the telephone to the nearest end office.

- ► Satellite links
- ► **Twisted-pair & Fiber-optic**
- ► Twisted-pair
- ► Fiber-optic

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Spring 2010
CS601- Data Communication

Question No: 1 (Marks: 1) - Please choose one
_____representation of links that connect nodes is called as physical topology.

- ► geometrical
- ► logical
- ► **physical (page 44)**

Question No: 2 (Marks: 1) – Please choose one
The internet model consists of _____ layers.

- ► three
- ► two
- ► **five**
- ► seven

http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter2/multiple_choice_quiz.html

Question No: 3 (Marks: 1) – Please choose one
Encryption and encoding are the same terms.

- ► True
- ► **False (Page 52)**

Question No: 4 (Marks: 1) - Please choose one
The amplitude of a digital signal depends upon the_____ to represent a bit.

- ► phase
- ► **voltage (Page 59)**
- ► wavelength

Question No: 5 (Marks: 1) - Please choose one
The inversion of the level at 1 bit is called as _____

- ► NRZ-L

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► **NRZ-I (Page 73)**
► RZ

Question No: 6 (Marks: 1) - Please choose one
Modulation of an analog signal can be accomplished through changing the _____ of the carrier signal.

► amplitude
► frequency
► phase
► **all of the given**

Question No: 7 (Marks: 1) - Please choose one
If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

► 5 KHz
► **10 KHz (Page 95)**
► 200 KHz
► 530 KHz

Question No: 8 (Marks: 1) - Please choose one
Category 5 UTP cable is used for data transmission of upto_____.

► **100 Mbps (Page 123)**
► 200 Mbps
► 250 Mbps
► 400 Mbps

Question No: 9 (Marks: 1) - Please choose one
The RG number gives us information about _____.

► Twisted pairs
► **Coaxial cables (Page 125)**
► Optical fibers
► all of the given

Question No: 10 (Marks: 1) - Please choose one
The inner core of an optical fiber is _____ in composition.

► **Glass plastic (Page 130)**
► Copper
► Bimetallic
► Liquid

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Question No: 11 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

- ► Conical
- ► **Barrel (Page 131)**
- ► Circular
- ► Rectangular

Question No: 12 (Marks: 1) - Please choose one
The VLF and LF bands use _____ propagation for communications.

- ► Ground
- ► Sky
- ► **Line of sight (Page 134)**
- ► Space

Question No: 13 (Marks: 1) - Please choose one
Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- ► **Single (Page 147)**
- ► Multi
- ► Single and Multi
- ► none of the given

Question No: 14 (Marks: 1) - Please choose one
A portion of the path that carries TX b/w a given pair of devices is known as _____.

- ► Node
- ► Bridge
- ► **Channel (Page 147)**
- ► Gateway

Question No: 15 (Marks: 1) - Please choose one
Which error detection method involves polynomials?

- ► Checksum
- ► Two-dimensional parity check
- ► **CRC (Page 177)**
- ► Simple parity check

Question No: 16 (Marks: 1) - Please choose one
If the ASCII character G is sent and the character D is received, what type of error is this?

- ► Single-bit
- ► Multiple-bit

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► **Burst**
► Recoverable
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Question No: 17 (Marks: 1) - Please choose one
Which error detection method involves the use of parity bits?

► **Simple parity check & two dimensional parity check**
► CRC
► Two-dimensional parity check
► Simple parity check
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 18 (Marks: 1) - Please choose one
Which error detection method can detect a single-bit error?

► Simple parity check
► Two-dimensional parity check
► CRC
► **All of the given**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 19 (Marks: 1) - Please choose one
The Hamming code is a method of _____

► Error detection
► **Error correction (Page 181)**
► Error encapsulation
► Error detection & Error encapsulation

Question No: 20 (Marks: 1) - Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 21 (Marks: 1) - Please choose one
In selective-reject ARQ, only the specific damaged or lost frame is_____.

► **Retransmitted (Page 200)**
► Forwarded
► Selected
► Rejected

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Question No: 22 (Marks: 1) - Please choose one
Which of the following sub layer, resolves the contention for the shared media

► **MAC (Page 219)**
► LLC
► Physical

Question No: 23 (Marks: 1) - Please choose one
The PDU has no flag fields, no CRC, and no station address

► **TRUE (Page 220)**
► FALSE

Question No: 24 (Marks: 1) - Please choose one
IEEE divides the base band category into _____ standards.

► **5 (Page 222)**
► 4
► 3
► 6

Question No: 25 (Marks: 1) - Please choose one
Like 10 Base 5, 10 Base 2 is a _____ topology LAN

► Ring
► Mesh
► Star
► **Bus (Page 227)**

Question No: 26 (Marks: 1) - Please choose one
Check sum method is used for _____ layers.

► Physical
► Application
► Transport
► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 27 (Marks: 1) - Please choose one
Repeater works on _____ layer.

► Data Link
► Physical
► **Network (Page 224)**
► Application

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Question No: 28 (Marks: 1) - Please choose one
Trunks are transmission media such as _____ that handle the telephone to the nearest end office.

► Satellite links
► **Twisted-pair & Fiber-optic**
► Twisted-pair
► Fiber-optic
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter8/mixed_quiz.html

Question No: 29 (Marks: 1) - Please choose one
Which of the following _____ uses a series of filters to decompose multiplexed signal into its constituent signals?

► MUX
► **DEMUX (Page 150)**
► Switch
► Bridge

Question No: 30 (Marks: 1) - Please choose one
In Fast Ethernet, data rate can be increased by _____ collisions.

► Increasing
► **Decreasing (Page 230)**
► Keeping Constant
► None of the given

FINALTERM EXAMINATION
Spring 2009

Question No: 1 (Marks: 1) - Please choose one
Which is not an element of protocol
► semantics
► timing
► **communication service module (Page 19)**

Question No: 2 (Marks: 1) - Please choose one
Layers 5, 6 and 7 also called as network support layers.

► True
► **False (Page 42)**

Question No: 3 (Marks: 1) - Please choose one
Fourier transform tells us that any digital signal can be decomposed into infinite number of periodic signals

► **True**
► **False (Page 42)**

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Question No: 4 (Marks: 1) - Please choose one
Time domain plot show changes in signal phase with respect to time.

► **True**
► **False (Page 63)**

Question No: 5 (Marks: 1) - Please choose one
Analog to digital conversion is also termed as modulating an analog signal.

► True
► **False (Page 70)**

Question No: 6 (Marks: 1) - Please choose one
DC component is also termed as Direct current component or a component with non-zero frequency.

► **False (Page 72)**
► **True**

Question No: 7 (Marks: 1) - Please choose one
Manchester is a type of _____encoding.

► **biphase (Page 75)**
► polar
► biphase & polar
► none of the given

Question No: 8 (Marks: 1) - Please choose one
The inversion of the level at 1 bit is called as _____

► NRZ-L
► **NRZ-I (Page 73)**
► RZ

Question No: 9 (Marks: 1) - Please choose one
PCM is the first process of PAM.

► True
► **False (Page 80)**

Question No: 10 (Marks: 1) - Please choose one
In 4PSK each phase change represents _____bits.

► 3
► 6
► **2 (Page 91)**
► 4

Question No: 11 (Marks: 1) - Please choose one
In RS 422 Balanced mode two lines carry _____ signals which are not identical to each other.

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► **Same (Page 109)**
► different
► digital
► analog

Question No: 12 (Marks: 1) - Please choose one
A _____ converts an analog signal into a digital signal.

► **Demodulator (Page 110)**
► Modulator
► Digital-to-analog converter

Question No: 13 (Marks: 1) - Please choose one
Which of the following is an example of ITU-T modem standards:

► T-series
► X-series
► N-series
► **V-series (Page 114)**

Question No: 14 (Marks: 1) - Please choose one
The maximum data rate in the uploading direction is still _____.

► 26.6 Kbps
► **33.6 Kbps (Page 117)**
► 36.6 Kbps
► 46.6 Kbps

Question No: 15 (Marks: 1) - Please choose one
Which of the following primarily uses guided media

► Cellular telephone system
► **Local telephone system (Page 120)**
► Satellite communication
► Radio broadcasting

Question No: 16 (Marks: 1) - Please choose one
When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____occurs.

► Reflection
► **Refraction (Page 127)**
► Incidence
► Criticism

Question No: 17 (Marks: 1) - Please choose one
When we talk about unguided media, usually we are referring to _____.

► Metallic wires
► Nonmetallic wires

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► **The air (Page 132)**
► Water

Question No: 18 (Marks: 1) - Please choose one
Optical fibers are defined by the ratio of the _____ of their core to the diameter of their cladding.

► **Diameter (Page 130)**
► Radius
► Length
► Width

Question No: 19 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

► Conical
► **Barrel (Page 131)**
► Circular
► Rectangular

Question No: 20 (Marks: 1) - Please choose one
Radio wave transmission utilizes _____ different types of propagation.

► Four
► Three
► Two
► **Five (Page 132)**

Question No: 21 (Marks: 1) - Please choose one
dB is _____ if a signal is amplified.

► **Negative**
► **Positive (Page 142)**
► Null
► Zero

Question No: 22 (Marks: 1) - Please choose one
A prism can deflect the light depending upon the angle of _____ and the frequency.

► **Deviation**
► **Incident (Page 151)**
► Refraction (Page 127)
► Reflection

Question No: 23 (Marks: 1) - Please choose one
Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____

► **Large (Page 158)**
► Small
► Medium
► None of the given

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Question No: 24 (Marks: 1) - Please choose one
The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

► **Twisted-pair (Page 160)**
► Coaxial
► Fiber-optic
► None of the given

Question No: 25 (Marks: 1) - Please choose one
Data from a computer are _____; the local loop handles _____ signals.

► Analog; analog
► Analog; digital
► Digital; digital
► **Digital; analog**
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter9/multiple_choice_quiz.html

Question No: 26 (Marks: 1) - Please choose one
Which error detection method uses ones complement arithmetic?

► Simple parity check
► Two-dimensional parity check
► CRC
► **Checksum (Page 179)**

Question No: 27 (Marks: 1) - Please choose one
Flow control is needed to prevent _____

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 28 (Marks: 1) - Please choose one
_____ coordinates the amount of data that can be sent before receiving acknowledgment

► **flow control (Page 186)**
► error control
► data control

Question No: 29 (Marks: 1) - Please choose one
Error control is both error _____ and error _____

► **detection; correction (Page 186)**
► detection; deletion
► detection; avoidance
► detection; forwarding

Question No: 30 (Marks: 1) - Please choose one
Addressing is not needed in _____ configuration.

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► **Point to Point (Page 190)**
► Multipoint
► Point to point and multipoint

Question No: 31 (Marks: 1) - Please choose one
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

► **0 to 63**
► 0 to 64
► 1 to 63
► 1 to 64
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter11/multiple_choice_quiz.html

Question No: 32 (Marks: 1) - Please choose one
A timer is set when _____ is sent out.

► A data frame
► **An ACK (Page 197)**
► A NAK

Question No: 33 (Marks: 1) - Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 34 (Marks: 1) - Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 35 (Marks: 1) - Please choose one
BLAST stands for :

► **Blocked asynchronous transmission (Page 205)**
► Blocked synchronous transmission
► Barrel asynchronous transmission
► Below asynchronous transmission

Question No: 36 (Marks: 1) - Please choose one
HDLC is an acronym for _____.

► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit
Question No: 37 (Marks: 1) – Please choose one

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The HDLC _____ field defines the beginning and end of a frame.

► **Flag (Page 214)**
► Address
► Control
► FCS

Question No: 38 (Marks: 1) – Please choose one
_____ is the access protocol used by traditional Ethernet.

► **CSMA/CD (Page 222)**
► CSMA/CA
► Token Ring
► CSMA

Question No: 39 (Marks: 1) – Please choose one
Bridges can divide a large _____ into smaller segments

► **Network (Page 241)**
► Packet
► Frame
► Address

Question No: 40 (Marks: 1) – Please choose one
Like VRC, LRC and CRC, Checksum is also based on _____.

► **Redundancy (Page 179)**
► Decimal Division
► Encryption
► Encoding

FINALTERM EXAMINATION
Fall 2009

Question No: 1 (Marks: 1) – Please choose one
The information to be communicated in a data communications system is the

► Medium
► Protocol
► **Message (Page 7)**
► Transmission

Question No: 2 (Marks: 1) – Please choose one
A set of devices connected by communication links is called networking

► **True (Page 12)**
► False

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Question No: 3 (Marks: 1) – Please choose one
Internet with small "i" specifies the world wide Network the actual internet.

- ► True
- ► **False (Page 39)**

Question No: 4 (Marks: 1) – Please choose one
Data chunk at data link layer is called_____

- ► frame
- ► **packet (Page 38)**
- ► datagram

Question No: 5 (Marks: 1) – Please choose one
Data synchronization is a function related with _____

- ► **session layer (Page 51)**
- ► presentation layer
- ► transport

Question No: 6 (Marks: 1) – Please choose one
When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- ► physical
- ► **transport**
- ► application
- ► none of the given

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Question No: 7 (Marks: 1) – Please choose one
Data must be converted into_____ before transmission.

- ► **signal (Page 56 and 84)**
- ► wave
- ► electric pulse

Question No: 8 (Marks: 1) – Please choose one
PCM is the first process of PAM.

- ► True
- ► **False (Page 80)**

Question No: 9 (Marks: 1) – Please choose one
In _____ transmission, bits are transmitted over a single wire, one at a time.

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► Asynchronous serial
► Synchronous serial
► **Parallel (Page 98)**
► Asynchronous & Synchronous serial

Question No: 10 (Marks: 1) – Please choose one
EIA 232 allows for a maximum bit rate of _____Kbps.

► 40
► 30
► **20 (Page 104)**
► 10

Question No: 11 (Marks: 1) – Please choose one
When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____occurs.

► Reflection
► **Refraction (Page 127)**
► Incidence
► Criticism

Question No: 12 (Marks: 1) – Please choose one
A parabolic dish antenna is a(n) _____ antenna.

► Omnidirectional
► Bidirectional
► **Unidirectional (Page 138)**
► Horn

Question No: 13 (Marks: 1) – Please choose one
Ultra high-frequency waves always use _____ propagation.

► Ground
► Sky
► **Line of Sight (Page 136)**
► Space

Question No: 14 (Marks: 1) – Please choose one
Middle frequency waves having range 300 KHz-3 MHz always use _____ propagation.

► Ground
► Sky
► **Line of Sight**
► Space

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Question No: 15 (Marks: 1) – Please choose one
DB is _____ if a signal is attenuated.

► **Negative (Page 142)**
► Positive
► Null
► Zero

Question No: 16 (Marks: 1) – Please choose one
Which multiplexing technique involves signals composed of light beams?

► FDM
► TDM
► **WDM (Page 150)**
► none of the given

Question No: 17 (Marks: 1) – Please choose one
Multiplexing has long been used as an essential tool in the _____.

► Electronic industry
► **Telephone industry (Page 159)**
► Space science
► VLAN

Question No: 18 (Marks: 1) – Please choose one
A telephone network is an example of a _____ network.

► Packet-switched
► **Circuit-switched (Page 38)**
► Message-switched
► none of the given

Question No: 19 (Marks: 1) – Please choose one
The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

► **Twisted-pair (Page 160)**
► Coaxial
► Fiber-optic
► None of the given

Question No: 20 (Marks: 1) – Please choose one
Which error detection method involves polynomials?

► Checksum
► Two-dimensional parity check
► **CRC (Page 177)**
► Simple parity check

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Question No: 21 (Marks: 1) – Please choose one
In CRC there is no error if the remainder at the receiver is _____

- ► Equal to the remainder at the sender
- ► **Zero (Page 176)**
- ► Nonzero
- ► The quotient at the sender

Question No: 22 (Marks: 1) – Please choose one
In CRC the quotient at the sender _____

- ► Becomes the dividend at the receiver
- ► Becomes the divisor at the receiver
- ► **is discarded**
- ► is the remainder

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Question No: 23 (Marks: 1) – Please choose one
Which error detection method can detect a bust error?

- ► The parity check
- ► Two-dimensional parity check
- ► CRC
- ► **Two-dimensional parity check and CRC**

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Question No: 24 (Marks: 1) – Please choose one
At the CRC checker, _____ means that the data unit is damaged

- ► A string of 0s
- ► A string of 1s
- ► A string of alternating 1s and 0s
- ► **A nonzero remainder**

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Question No: 25 (Marks: 1) – Please choose one
Error control is both error _____ and error _____

- ► **detection; correction (Page 186)**
- ► detection; deletion
- ► detection; avoidance
- ► detection; forwarding

Question No: 26 (Marks: 1) – Please choose one
In line discipline the initiator first transmits a frame called an _____

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► **Enquiry (Page 189)**
► Acknowledgment
► NAK
► Request

Question No: 27 (Marks: 1) – Please choose one
In line discipline after the data transmission, the sending system finishes with an _____ frame

► **EOT (Page 189)**
► EKT
► ENT
► ESP

Question No: 28 (Marks: 1) – Please choose one
In primary-secondary communication _____ is always the initiator of a session

► **Primary (Page 189)**
► Secondary
► Sender
► Receiver

Question No: 29 (Marks: 1) – Please choose one
Primary device uses _____ to receive transmission from the secondary devices.

► ACK
► ENQ
► **POLL (Page 191)**

Question No: 30 (Marks: 1) – Please choose one
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

► **0 to 63**
► 0 to 64
► 1 to 63
► 1 to 64
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter11/multiple_choice_quiz.html

Question No: 31 (Marks: 1) – Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 32 (Marks: 1) – Please choose one

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Data link protocols can be divided into _____ sub-groups.

► **two (Page 202)**
► three
► four
► five

Question No: 33 (Marks: 1) – Please choose one
XMODEM is a _____ protocol designed for telephone-line communication b/w PCs.

► **file transfer (Page 203)**
► hardware
► software
► application exchange

Question No: 34 (Marks: 1) – Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 35 (Marks: 1) – Please choose one
Which of the following combines features of the other two?

► **ZMODEM (Page 205)**
► YMODEM
► XMODEM
► None of given

Question No: 36 (Marks: 1) – Please choose one
BLAST stands for :

► **Blocked asynchronous transmission (Page 205)**
► Blocked synchronous transmission
► Barrel asynchronous transmission
► Below asynchronous transmission

Question No: 37 (Marks: 1) – Please choose one
Which one of the following uses full duplex operation with sliding window flow control.

► **BLAST (Page 205)**
► XMODEM
► YMODEM
► ZMODEM

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Question No: 38 (Marks: 1) – Please choose one
HDLC is an acronym for _____.

- ► High-duplex line communication
- ► **High-level data link control (Page 210)**
- ► Half-duplex digital link combination
- ► Host double-level circuit

Question No: 39 (Marks: 1) – Please choose one
The DSAP and SSAP are addresses used by _____ to identify the protocol stacks.

- ► **LLC (Page 220)**
- ► MAC
- ► Network

Question No: 40 (Marks: 1) – Please choose one
The PDU has no flag fields, no CRC, and no station address

- ► **TRUE (Page 220)**
- ► FALSE

Question No: 41 (Marks: 1) – Please choose one
Which of the following is a bus topology LAN that uses base band signaling and has a max? segment length of 500 meters

- ► **10 Base5 (Page 223)**
- ► 10 Base2
- ► 100 Base2
- ► 100 Base5

Question No: 42 (Marks: 1) – Please choose one
Token Bus has no commercial application in data communications

- ► **True (Page 232)**
- ► False

Question No: 43 (Marks: 1) – Please choose one
The BNC-T connector is a T-shaped device with _____ ports

- ► **Three (Page 228)**
- ► Two
- ► Four
- ► Five

Question No: 44 (Marks: 1) – Please choose one
_____ is the access protocol used by traditional Ethernet.

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► **CSMA/CD (Page 222)**
► CSMA/CA
► Token Ring
► CSMA
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter13/mixed_quiz.html

Question No: 45 (Marks: 1) – Please choose one
When a collision is detected in a network using CSMA/CD. _____

► The frame is immediately resent
► **A jam signal is sent by the station**
► The backoff value is set to 0
► The backoff value is decremented by 1
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter13/mixed_quiz.html

Question No: 46 (Marks: 1) – Please choose one
Like VRC, LRC and CRC, Checksum is also based on _____.

► **Redundancy (Page 179)**
► Decimal Division
► Encryption
► Encoding

Question No: 47 (Marks: 1) – Please choose one
Check sum method is used for _____ layers.

► Physical
► Application
► Transport
► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 48 (Marks: 1) – Please choose one
Repeater works on _____ layer.

► Data Link
► Physical
► **Network (Page 224)**
► Application

Question No: 49 (Marks: 1) – Please choose one
When systems share a point to point link, then protocols used are called _____ protocols.

► **Direct (Page 21)**
► Indirect

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► Monolithic
► structured

Question No: 50 (Marks: 1) – Please choose one
_____ requires more bandwidth.

► **FSK** http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter5/
► ASK
► PSK
► QAM

Fall 2009
CS601- Data Communication

Question No: 1 (Marks: 1) – Please choose one
An unauthorized user is a network _____ issue.

► Performance
► Reliability
► **Security (Page 15)**
► All of the given

Question No: 2 (Marks: 1) – Please choose one
Which is not an element of protocol?

► semantics
► timing
► **communication service module (Page 19)**

Question No: 3 (Marks: 1) – Please choose one
_____ is a multipoint topology.

► Ring
► Mesh
► Tree
► **Bus (Page 31)**

Question No: 4 (Marks: 1) – Please choose one
Unidirectional traffic movement is overcome by dual ring technology.

► **True (Page 33)**
► False

Question No: 5 (Marks: 1) – Please choose one
Physical layer define characteristics of interface between device and _____

► **transmission medium** http://en.wikipedia.org/wiki/OSI_model
► another device

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► another peer physical layer at other side
► modem

Question No: 6 (Marks: 1) – Please choose one
_____ layer deals with syntax and semantics of information exchange.

► **presentation (Page 51)**
► session
► application
► physical

Question No: 7 (Marks: 1) – Please choose one
To allow access to network resources is the function of _____

► **application layer (Page 53)**
► physical layer
► network layer

Question No: 8 (Marks: 1) – Please choose one
Time domain plot show changes in signal phase with respect to time.

► True
► **False (Page 63)**

Question No: 9 (Marks: 1) – Please choose one
In 8QAM each signal shift or one baud represents _____.

► 4 bits
► 2 bits
► 5 bits
► **3 bits (Page 93)**

Question No: 10 (Marks: 1) – Please choose one
Modulation of an analog signal can be accomplished through changing the _____ of the carrier signal.

► amplitude
► frequency
► phase
► **all of the given (Page 62)**

Question No: 11 (Marks: 1) – Please choose one
EIA 449 provides much better functionality than EIA _____

► **232 (Page 110)**
► 223

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► 262
► 222

Question No: 12 (Marks: 1) – Please choose one
Which of the following is an example of ITU-T modem standards:

► T-series
► X-series
► N-series
► **V-series (Page 114)**

Question No: 13 (Marks: 1) – Please choose one
Traditional modems are wide spread now to a data rate of _____.

► **56 Kbps (Page 115)**
► 72 Kbps
► 42 Kbps
► 96 Kbps

Question No: 14 (Marks: 1) – Please choose one
In case of uploading at the switching station, data is converted to digital signal using _____.

► TCP
► **PCM (Page 116)**
► ICP
► TDM

Question No: 15 (Marks: 1) – Please choose one
The RG number gives us information about _____.

► Twisted pairs
► **Coaxial cables (Page 125)**
► Optical fibers
► all of the given

Question No: 16 (Marks: 1) – Please choose one
The _____ is an association that sponsors the use of infrared waves.

► **IrDA** http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter7/mixed_quiz.html
► EIA
► **FCC**
► PUD

Question No: 17 (Marks: 1) – Please choose one
Optical fibers are defined by the ratio of the _____ of their core to the diameter of their cladding.

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► **Diameter (Page 130)**
► Radius
► Length
► Width

Question No: 18 (Marks: 1) – Please choose one
The section of EM spectrum defined as Radio Communication is divided into _____ ranges called BANDS.

► **8 (Page 132)**
► 10
► 5
► 6

Question No: 19 (Marks: 1) – Please choose one
Radio wave transmission utilizes _____ different types of propagation.

► Four
► Three
► Two
► **Five (Page 132)**

Question No: 20 (Marks: 1) – Please choose one
The VLF and LF bands use _____ propagation for communications.

► Ground
► Sky
► **Line of sight (Page 136)**
► Space

Question No: 21 (Marks: 1) – Please choose one
In _____ propagation, low-frequency radio waves hug the earth.

► Ground
► Sky
► Line of Sight
► **Space (Page 133)**

Question No: 22 (Marks: 1) – Please choose one
dB is _____ if a signal is amplified.

► Negative
► **Positive (Page 142)**
► Null
► Zero

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Question No: 23 (Marks: 1) – Please choose one
Distortion occurs in a _____ signal.

- ► Rectified
- ► **Composite (Page 141)**
- ► Amplified
- ► none of the given

Question No: 24 (Marks: 1) – Please choose one
There are _____ basic categories of multiplexing.

- ► **3 (Page 148)**
- ► 4
- ► 2
- ► 5

Question No: 25 (Marks: 1) – Please choose one
In bit _____, MUX adds extra bits to a device.

- ► **Stuffing (Page 156)**
- ► Adding
- ► Multiplication
- ► Exchanging

Question No: 26 (Marks: 1) – Please choose one
The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

- ► **Twisted-pair (Page 160)**
- ► Coaxial
- ► Fiber-optic
- ► None of the given

Question No: 27 (Marks: 1) – Please choose one
FTTC stands for _____

- ► flexible to the curb
- ► **fiber to the curb (Page 166)**
- ► fiber to the cable
- ► fiber to the center

Question No: 28 (Marks: 1) – Please choose one
If the ASCII character G is sent and the character D is received, what type of error is this?

- ► Single-bit
- ► Multiple-bit
- ► **Burst**

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► Recoverable
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 29 (Marks: 1) – Please choose one
Which error detection method can detect a single-bit error?

► Simple parity check
► Two-dimensional parity check
► CRC
► **All of the given**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 30 (Marks: 1) – Please choose one
Flow control is needed to prevent _____

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 31 (Marks: 1) – Please choose one
In data link layer, communication requires at least _____ devices working together

► 3
► **2 (Page 185)**
► 4
► 5

Question No: 32 (Marks: 1) – Please choose one
Data link control is composed of _____ important functions.

► 2
► **3 (Page 185)**
► 4
► 5

Question No: 33 (Marks: 1) – Please choose one
_____ coordinates the amount of data that can be sent before receiving acknowledgment

► **flow control (Page 186)**
► error control
► data control

Question No: 34 (Marks: 1) – Please choose one
Primary device uses _____ to receive transmission from the secondary devices.

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► ACK
► ENQ
► **POLL (Page 191)**

Question No: 35 (Marks: 1) – Please choose one
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

► **0 to 63**
► 0 to 64
► 1 to 63
► 1 to 64
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter11/multiple_choice_quiz.html

Question No: 36 (Marks: 1) – Please choose one
Data link protocols can be divided into _____ sub-groups.

► **two (Page 202)**
► three
► four
► five

Question No: 37 (Marks: 1) – Please choose one
XMODEM is a _____ protocol designed for telephone-line communication b/w PCs.

► **file transfer (Page 203)**
► hardware
► software
► application exchange

Question No: 38 (Marks: 1) – Please choose one
YMODEM uses ITU-T CRC-_____ for Error Checking

► **16 (Page 205)**
► 32
► 8
► 4

Question No: 39 (Marks: 1) – Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 40 (Marks: 1) – Please choose one
HDLC is an acronym for _____.

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► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit

Question No: 41 (Marks: 1) - Please choose one
What is present in all HDLC control fields?

► **P/F bit (Page 215)**
► N(R)
► N(S)
► Code bits

Question No: 42 (Marks: 1) - Please choose one
Which of the following sublyer, resolves the contention for the shared media

► **MAC (Page 219)**
► LLC
► Physical

Question No: 43 (Marks: 1) - Please choose one
Ethernet LANs can support data rates between _____

► **1 and 100 Mbps (Page 223)**
► 1 and 200 Mbps
► 1 and 500 Mbps
► 1 and 100 Gbps

Question No: 44 (Marks: 1) - Please choose one
In FDDI, Token Passing is used as Access method.

► **True (Page 236)**
► False

Question No: 45 (Marks: 1) - Please choose one
Bridges can divide a large _____ into smaller segments

► **Network (Page 241)**
► Packet
► Frame
► Address

Question No: 46 (Marks: 1) - Please choose one
Like VRC, LRC and CRC, Checksum is also based on _____.

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► **Redundancy (Page 179)**
► Decimal Division
► Encryption
► Encoding

Question No: 47 (Marks: 1) - Please choose one
Check sum method is used for _____ layers.

► Physical
► Application
► Transport
► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 48 (Marks: 1) - Please choose one
_____ Which of the following _____ uses a series of filters to decompose multiplexed signal into its constituent signals?

► Bridge
► MUX
► **DEMUX (Page 150)**
► Switch

Question No: 49 (Marks: 1) - Please choose one
_____ We need _____ to decompose a composite signal into its components.

► **Fourier transform (Page 64)**
► nyquist theorem
► shannon capacity

Question No: 50 (Marks: 1) - Please choose one
Data from computer is in _____ form and the local loop handles _____ signals.

► Analog; analog
► Analog; digital
► Digital; digital
► **Digital; analog**
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter9/multiple_choice_quiz.html

FINALTERM EXAMINATION
Spring 2009

Question No: 1 (Marks: 1) - Please choose one
There are how many factors on which the performance of a network depends?

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► Three
► **Five (Page 14)**
► Four
► Two

Question No: 2 (Marks: 1) - Please choose one
_____requires the maximum number of I/O ports.

► Bus
► Star
► **Mesh (Page 29)**
► Ring

Question No: 3 (Marks: 1) - Please choose one
Headers are added at layers 1 and 7 of OSI model.

► True
► **False (Page 41)**

Question No: 4 (Marks: 1) - Please choose one
Trailer is only added at _____layer of OSI model.

► **data link (Page 41)**
► physical
► network
► application

Question No: 5 (Marks: 1) - Please choose one
A sine wave must be an analog signal.

► **True (Page 58)**
► False

Question No: 6 (Marks: 1) - Please choose one
If there is _____in voltage then the frequency is infinite.

► **instantaneous change (Page 61)**
► continuous change
► no change

Question No: 7 (Marks: 1) - Please choose one
The inversion of the level at 1 bit is called as _____

► NRZ-L
► **NRZ-I (Page 73)**

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► RZ

Question No: 8 (Marks: 1) - Please choose one
The last process in PCM is _____ digital data into digital signal.

► **encoding (Page 82)**
► decoding
► modulating

Question No: 9 (Marks: 1) - Please choose one
Amplitude in ASK is more resistive to EMI and Noise.

► True
► **False (Page 87)**

Question No: 10 (Marks: 1) - Please choose one
If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

► 5 KHz
► **10 KHz (Page 95)**
► 200 KHz
► 530 KHz

Question No: 11 (Marks: 1) - Please choose one
In _____ transmission, a start bit and a stop bit frame a character byte.

► **Asynchronous serial (Page 99)**
► Synchronous serial
► Parallel
► Asynchronous & Synchronous serial

Question No: 12 (Marks: 1) - Please choose one
Synchronous transmissions have _____.

► a start bit
► a stop bit
► gaps between bytes
► **none of the given (Page 99)**

Question No: 13 (Marks: 1) - Please choose one
Transmission media are usually categorized as _____

► Fixed or Unfixed
► **Guided or Unguided (Page 119)**
► Determinate or Indeterminate

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► Metallic or Nonmetallic

Question No: 14 (Marks: 1) - Please choose one
The RG number gives us information about _____.

► Twisted pairs
► **Coaxial cables (Page 125)**
► Optical fibers
► all of the given

Question No: 15 (Marks: 1) - Please choose one
Radio wave and microwave frequencies range from _____.

► 3 to 300 KHz
► **300 KHz to 300GHz (Page 132)**
► 3 KHz to 300 GHz
► 3 KHz to 3000 GHz

Question No: 16 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

► Conical
► **Barrel (Page 131)**
► Circular
► Rectangular

Question No: 17 (Marks: 1) - Please choose one
In _____ method a signal can be directed in a straight from Antenna to antenna.

► **Line of sight (Page 134)**
► Ground propagation
► Sky propagation
► Microwaves

Question No: 18 (Marks: 1) - Please choose one
Amplifiers are used to _____the signal to heat.

► **Amplify (Page 142)**
► Rectify
► Testify
► Nullify

Question No: 19 (Marks: 1) - Please choose one
There are _____ basic categories of multiplexing.

► **3 (Page 148)**

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► 4
► 2
► 5

Question No: 20 (Marks: 1) - Please choose one
If a T-1 carries 8000 frames, the data rate is _____

► 2.544 Mbps
► **1.544 Mbps (Page 165)**
► 1.544 Kbps
► 1.544 Gbps

Question No: 21 (Marks: 1) - Please choose one
FTTC stands for _____

► flexible to the curb
► **fiber to the curb (Page 166)**
► fiber to the cable
► fiber to the center

Question No: 22 (Marks: 1) - Please choose one
Optical signals are multiplexed using _____ at switching office to create wider BW optical signals

► **WDM (Page 167)**
► FDM
► TDM
► MUX

Question No: 23 (Marks: 1) - Please choose one
Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

► Simple parity check
► **Two-dimensional parity check**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html
► CRC
► Checksum

Question No: 24 (Marks: 1) - Please choose one
If the ASCII character G is sent and the character D is received, what type of error is this?

► Single-bit
► Multiple-bit
► **Burst**

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http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

► Recoverable

Question No: 25 (Marks: 1) - Please choose one
Flow control is needed to prevent _____

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer. (Page 46)**
► Collision between sender and receiver

Question No: 26 (Marks: 1) - Please choose one
In data link layer, communication requires at least _____ devices working together

► 3
► **2 (Page 185)**
► 4
► 5

Question No: 27 (Marks: 1) - Please choose one
Data link control is composed of _____ important functions.

► 2
► **3 (Page 185)**
► 4
► 5

Question No: 28 (Marks: 1) - Please choose one
Error control is both error _____ and error _____

► **detection; correction (Page 186)**
► detection; deletion
► detection; avoidance
► detection; forwarding

Question No: 29 (Marks: 1) - Please choose one
ENQ/ACK stands for_____

► **Enquiry/ Acknowledgment (Page 187)**
► Enque/ Acknowledgment
► Enquist/ Acknowledgment
► none of the given

Question No: 30 (Marks: 1) - Please choose one
In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

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► Stop-and-wait
► Go-Back-N
► **Selective reject (Page 200)**
► Stop-and-wait & Go-back-N

Question No: 31 (Marks: 1) - Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 32 (Marks: 1) - Please choose one
Which of the following combines features of the other two?

► **ZMODEM (Page 205)**
► YMODEM
► XMODEM
► None of given

Question No: 33 (Marks: 1) - Please choose one
BLAST stands for :

► **Blocked asynchronous transmission (Page 205)**
► Blocked synchronous transmission
► Barrel asynchronous transmission
► Below asynchronous transmission

Question No: 34 (Marks: 1) - Please choose one
HDLC is an acronym for _____.

► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit

Question No: 35 (Marks: 1) – Please choose one
The HDLC _____ field defines the beginning and end of a frame.

► **Flag (Page 214)**
► Address
► Control
► FCS

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Question No: 36 (Marks: 1) – Please choose one
The shortest frame in HDLC protocol is usually the _____ frame.

- ► Information
- ► **Supervisory (Page 213)**
- ► Management
- ► None of the given

Question No: 37 (Marks: 1) - Please choose one
The PDU has no flag fields, no CRC, and no station address

- ► **TRUE (Page 220)**
- ► FALSE

Question No: 38 (Marks: 1) - Please choose one
_____ is the access protocol used by traditional Ethernet.

- ► **CSMA/CD (Page 222)**
- ► CSMA/CA
- ► Token Ring
- ► CSMA

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 39 (Marks: 1) - Please choose one
Repeater is an amplifier, not a regenerator.

- ► True
- ► **False (Page 240)**

Question No: 40 (Marks: 1) - Please choose one
Bridges can divide a large _____ into smaller segments

- ► **Network (Page 241)**
- ► Packet
- ► Frame
- ► Address

CS601 Data Communication
Final Term Examination – Spring 2006

Question No. 1 Marks : 2
Which error detection method uses ones complement arithmetic?

- ➢ Simple parity check
- ➢ Two-dimensional parity check
- ➢ CRC
- ➢ **Checksum (Page 179)**

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Question No. 2 Marks : 2

In a time-domain plot, the vertical axis is the measure of _____.

- **Amplitude (Page 59)**
- Frequency
- Phase
- Time

Question No. 4 Marks : 2

Which topology requires a multipoint connection?

- Mesh
- Star
- **Bus (Page 31)**
- Ring

Question No. 8 Marks : 2

A timer is set when _____ is (are) sent out.

- A data frame
- **An ACK (Page 197)**
- A NAK
- An ARQ

Question No. 9 Marks : 2

If the data unit is 111111, the divisor 1010, and the remainder 110, what is the dividend at the receiver?

- 111111011
- **111111110**

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

- 1010110
- 110111111

FINALTERM EXAMINATION

FALL 2006

Question No: 1 (Marks: 1) - Please choose one

OSI standard is practically implemented in the form of internet.

►TRUE

►FALSE

Question No: 2 (Marks: 1) - Please choose one

TCP/IP application layers combine the functions of OSI Application, Session and Transport layers.

►TRUE (Page 55)

►FALSE

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Question No: 3 (Marks: 1) - Please choose one
Unipolar use one voltage levels.
►**TRUE (Page 71)**
►FALSE

Question No: 4 (Marks: 1) - Please choose one
The material of core and cladding in fiber optic cable is same.
►TRUE
►**FALSE (Page 127)**

Question No: 5 (Marks: 1) - Please choose one
Burst error is easily corrected then bit error.
►TRUE
►FALSE

Question No: 6 (Marks: 1) - Please choose one
Set of rules governing communication is known as
►OSI model
►**Protocol (Page 08)**
►Medium

Question No: 7 (Marks: 1) - Please choose one
WDM(wave division multiplexing) deals with
► electric waves
►**light waves (Page 150)**
►both

Question No: 8 (Marks: 1) - Please choose one
A Null modem is a
►traditional modem
►**technique to connect two DTE (Page 106)**
►both

Question No: 9 (Marks: 1) - Please choose one
Router work on
►data link layer
►physical layer
►**network layer (Page 48)**

Question No: 10 (Marks: 1) - Please choose one
Poll/Select is a technique related with
►line control
►**line discipline (Page 187)**

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►error control

Final Term Examination – Spring 2005

Question No. 1 Marks : 02
In cyclic redundancy checking, what is the CRC?

►the divisor
►the quotient
►the dividend
►**the remainder**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No. 2 Marks : 02
In fiber optics the signal source is _____waves.

►**Light (Page 126)**
►Radio
►Very Low frequency
►Infrared

Question No. 3 Marks : 02
Each device has a dedicated point – to – point line configuration only with the two devices on either side of it.

►**Ring Topology (Page 33)**
►Star Topology
►Mesh Topology
►Tree Topology

Question No. 6 Marks : 02
Measures the relative strengths of two signals

►**Decibel (Page 141)**
►Bandwidth
►Wavelength
►Phase

Question No. 7 Marks : 02
Which multiplexing technique shifts each signal to a different carrier frequency?

►**FDM (Page 149)**

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►Synchronous TDM
►Asynchronous TDM
►None of the above

Question No. 8 Marks : 02
The _____of a signal is the width of the frequency spectrum.

►Amplitude
►**Bandwidth (Page 66)**
►Bit interval
►Phase

Final Term Examination – Spring 2005

Question No. 1
In cyclic redundancy checking, what is the CRC? **Marks : 02**

►the divisor
►the quotient
►the dividend
►**the remainder**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No. 2
In fiber optics the signal source is _____waves. **Marks : 02**

►**Light (Page 126)**
►Radio
►Infrared
►Very Low frequency

Question No. 3 Marks : 02
Each device has a dedicated point – to – point line configuration only with the two devices on either side of it.

►**Ring Topology (Page 33)**
►Mesh Topology
►Star Topology
►Tree Topology

Question No. 6
Measures the relative strengths of two signals **Marks : 02**

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► **Decibel (Page 141)**
► Bandwidth
► Phase
► Wavelength

Question No. 7 Marks : 02
Which multiplexing technique shifts each signal to a different carrier frequency?

► **FDM (Page 149)**
► Synchronous TDM
► Asynchronous TDM
► None of the above

Question No. 8
The _____ of a signal is the width of the frequency spectrum. Marks : 02

► Amplitude
► **Bandwidth (Page 66)**
► Bit interval
► Phase

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CS601 FINALTERM important MCQs

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1) Which multiplexing technique transmits digital signals?

A) WDM
B) FDM
C) TDM
D) None of the above

2) Which multiplexing technique shifts each signal to a different carrier frequency?

A) TDM
B) FDM
C) Both (a) and (b)
D) None of the above

3) In TDM, for n signal sources of the same data rate, each frame contains _____ slots.

A) 0 to n
B) n
C) n + 1
D) n - 1

4) In TDM, the transmission rate of the multiplexed path is usually _____ the sum of the transmission rates of the signal sources.

A) 1 less than
B) Greater than
C) Less than
D) Equal to

5) DS-1 through DS-4 are _____ while T-1 through T-4 are _____.

A) Services; signals
B) Services; lines
C) Services; multiplexers
D) Multiplexers; signals

6) The sharing of a medium and its link by two or more devices is called _____.

A) Modulation
B) Encoding
C) Multiplexing
D) Line discipline

7) In AT&T's FDM hierarchy, the bandwidth of each group type can be found by multiplying _____ and adding extra bandwidth for guard bands.

A) The sampling rate by 4000 Hz
B) The number of voice channels by 4000 Hz
C) The number of voice channels by 8 bits/sample
D) The sampling rate by 8 bits/sample

8) Guard bands increase the bandwidth for _____.

A) TDM
B) FDM
C) Both (a) and (b)
D) None of the above

9) Which multiplexing technique transmits analog signals?

A) FDM
B) TDM
C) WDM
D) (a) and (c)

10) In a T-1 line, _____ interleaving occurs.

A) Bit
B) Byte
C) DS-0
D) Switch

11) Which multiplexing technique involves signals composed of light beams?

A) WDM
B) FDM
C) TDM
D) None of the above

12) The VLF and LF bands use _____ propagation for communications.

A) Space
B) Ground
C) Sky
D) Line of sight

13) Category 1 UTP cable is most often used in _____ networks.

A) Infrared
B) Telephone
C) Fast Ethernet
D) Traditional Ethernet

14) BNC connectors are used by _____ cables.

A) Fiber-optic
B) UTP
C) STP
D) Coaxial

15) Which of the following is not a guided medium?

A) Twisted-pair cable
B) Fiber-optic cable
C) Atmosphere
D) Coaxial cable

16) In an environment with many high-voltage devices, the best transmission medium would be _____.

A) Twisted-pair cable
B) Coaxial cable
C) The atmosphere
D) Optical fiber

17) _____ cable consists of an inner copper core and a second conducting outer sheath.

A) Coaxial
B) Twisted-pair
C) Fiber-optic
D) Shielded twisted-pair

18) In fiber optics, the signal source is _____ waves.

A) Very low-frequency
B) Light
C) Radio
D) Infrared

19) Smoke signals are an example of communication through _____.

A) A guided medium
B) A refractive medium
C) An unguided medium
D) A small or large medium

20) Which of the following primarily uses guided media?

A) Cellular telephone system
B) Satellite communications
C) Local telephone system
D) Radio broadcasting

21) What is the major factor that makes coaxial cable less susceptible to noise than twisted-pair cable?

A) Outer conductor
B) Inner conductor
C) Diameter of cable
D) Insulating material

22) The RG number gives us information about _____.

A) Optical fibers
B) Twisted pairs
C) Coaxial cables
D) All the above

23) Transmission media are usually categorized as _____.

A) Guided or unguided
B) Fixed or unfixed
C) Determinate or indeterminate
D) Metallic or nonmetallic

24) The _____ is an association that sponsors the use of infrared waves.

A) EIA
B) IrDA
C) FCC
D) PUD

25) In an optical fiber, the inner core is _____ the cladding.

A) Less dense than
B) Denser than
C) The same density as
D) Another name for

26) The inner core of an optical fiber is _____ in composition.

A) Copper
B) Bimetallic
C) Glass or plastic
D) Liquid

27) When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____ occurs.

A) Refraction
B) Reflection
C) Incidence
D) Criticism

28) In _____ propagation, the beam of propagated light is almost horizontal, and the low-density core has a small diameter compared to the cores of the other propagation modes.

A) Single-mode
B) Multimode step-index
C) Multimode graded-index
D) Multimode single-index

29) _____ is the propagation method subject to the greatest distortion.

A) Single-mode
B) Multimode step-index
C) Multimode graded-index
D) Multimode single-index

30) In _____ propagation, the core is of varying densities.

A) Single-mode
B) Multimode step-index
C) Multimode graded-index
D) Multimode single-index

31) When we talk about unguided media, usually we are referring to _____.

A) Metallic wires
B) Nonmetallic wires
C) The air
D) None of the above

32) Transmission media are closest to the _____ layer.

A) Application
B) Physical
C) Network
D) Transport

33) Radio wave and microwave frequencies range from _____.

A) 3 to 300 KHz
B) 300 KHz to 3 GHz
C) 3 KHz to 300 GHz
D) 3 KHz to 3000 GHz

34) Optical fibers, unlike wire media, are highly resistant to _____.

A) High-frequency transmission
B) Low-frequency transmission
C) Refraction
D) Electromagnetic interference

35) In _____ propagation, low-frequency radio waves hug the earth.

A) Space
B) Ground
C) Sky
D) Line of sight

36) When the angle of incidence is _____ the critical angle, the light beam bends along the interface.

A) More than
B) Less than
C) Equal to
D) None of the above

37) A parabolic dish antenna is a(n) _____ antenna.

A) Omnidirectional
B) Bidirectional
C) Horn
D) Unidirectional

38) The telephone service handled between two LATAs is called _____.

A) An ILEC
B) An IXC
C) A CLEC
D) A POP

39) How many crosspoints are needed in a single-stage switch with 40 inputs and 50 outputs?

A) 2000
B) 90
C) 50
D) 40

40) The _____ is a device that connects n inputs to m outputs.

A) Crossbar
B) Crosspoint
C) Modem
D) RAM

41) The established telephone company that provided services in a LATA before 1966 and owns the cabling system is called _____.

A) A CLEC
B) An IXC
C) An ILEC
D) A POP

42) In a crossbar with 1000 crosspoints, approximately how many are in use at any time?

A) 100
B) 250
C) 500
D) 1000

43) The _____ of a TSI controls the order of delivery of slot values that are stored in RAM.

A) Crossbar
B) Crosspoint
C) Transceiver
D) Control unit

44) Which of the following is a time-division switch?

A) TSI
B) TDM bus
C) Crosspoint
D) (a) and (b)

45) In a time-division switch, a _____ governs the destination of a packet stored in RAM.

A) Control unit
B) TDM bus
C) Crosspoint
D) Crossbar

46) A telephone network is an example of a _____ network.

A) Circuit-switched
B) Packet-switched
C) Message-switched
D) None of the above

47) The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

A) Coaxial
B) Fiber-optic
C) Twisted-pair
D) (b) and (c)

48) Trunks are transmission media such as _____ that handle the telephone communication between offices.

A) Twisted-pair cable
B) Fiber-optic cable
C) Satellite links
D) (b) and (c)

49) A new telephone company that provides services in a LATA after 1966 is called _____.

A) An ILEC
B) An IXC
C) A POP
D) A CLEC

50) If the end office receives two bursts of analog signals with frequencies of 697 and 1477 Hz, then the number _____ has been punched.

A) 1
B) 2
C) 3
D) 4

51) In _____ circuit switching, delivery of data is delayed because data must be stored and retrieved from RAM.

A) Time-division
B) Space-division
C) Virtual
D) Packet

52) Data from a computer are _____; the local loop handles _____ signals.

A) Digital; digital
B) Digital; analog
C) Analog; analog
D) Analog; digital

53) To create a _____, combine crossbar switches in stages.

A) TSI
B) Multistage switch
C) Crosspoint
D) Packet switch

54) A traditional telephone line has a bandwidth of _____.

A) 2000 Hz
B) 4000 Hz
C) 2000 MHz
D) 4000 MHz

55) Which of the following best describes a single-bit error?

A) A single bit is inverted.
B) A single bit is inverted per transmission.
C) A single bit is inverted per data unit.
D) Any of the above

56) Which error detection method uses ones complement arithmetic?

A) Simple parity check
B) Checksum
C) Two-dimensional parity check
D) CRC

57) Which error detection method consists of just one redundant bit per data unit?

A) Two-dimensional parity check
B) CRC
C) Simple parity check
D) Checksum

58) Which error detection method involves polynomials?

A) CRC
B) Simple parity check
C) Two-dimensional parity check
D) Checksum

59) If the ASCII character G is sent and the character D is received, what type of error is this?

A) Single-bit
B) Multiple-bit
C) Burst
D) Recoverable

60) If the ASCII character H is sent and the character I is received, what type of error is this?

A) Burst
B) Recoverable
C) Single-bit
D) Multiple-bit

61) In cyclic redundancy checking, what is the CRC?

A) The remainder
B) The divisor
C) The quotient
D) The dividend

62) Which error detection method involves the use of parity bits?

A) Simple parity check
B) Two-dimensional parity check
C) CRC
D) (a) and (b)

63) In cyclic redundancy checking, the divisor is _____ the CRC.

A) The same size as
B) 1 bit more than
C) 1 bit less than
D) 2 bits more than

64) If the data unit is 111111, the divisor 1010, and the remainder 110, what is the dividend at the receiver?

A) 111111011
B) 1010110
C) 111111110
D) 110111111

65) Which error detection method consists of a parity bit for each data unit as well as an entire data unit of parity bits?

A) Simple parity check
B) Checksum
C) Two-dimensional parity check
D) CRC

66) If the data unit is 111111 and the divisor 1010, what is the dividend at the transmitter?

A) 1111110000
B) 111111000
C) 111111
D) 1111111010

67) If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is _____.

A) Indeterminate
B) 42
C) Even
D) Odd

68) In CRC there is no error if the remainder at the receiver is _____.

A) Nonzero
B) The quotient at the sender
C) Equal to the remainder at the sender
D) Zero

69) At the CRC generator, _____ added to the data unit after the division process.

A) 0s are
B) 1s are
C) The CRC remainder is
D) The polynomial is

70) The sum of the checksum and data at the receiver is _____ if there are no errors.

A) -0
B) +0
C) The complement of the checksum
D) The complement of the data

71) In CRC the quotient at the sender _____.

A) Becomes the dividend at the receiver
B) Becomes the divisor at the receiver
C) Is the remainder
D) Is discarded

72) The Hamming code is a method of _____.

A) Error detection
B) Error correction
C) Error encapsulation
D) (a) and (b)

73) At the CRC checker, _____ means that the data unit is damaged.

A) A string of alternating 1s and 0s
B) A nonzero remainder
C) A string of 0s
D) A string of 1s

74) Which error detection method can detect a single-bit error?

A) Simple parity check
B) Two-dimensional parity check
C) CRC
D) All the above

75) Which error detection method can detect a burst error?

A) The parity check
B) Two-dimensional parity check
C) CRC
D) (b) and (c)

76) At the CRC generator, _____ added to the data unit before the division process.

A) A polynomial is
B) A CRC remainder is
C) 0s are
D) 1s are

77) HDLC is an acronym for _____.

A) High-duplex line communication
B) Half-duplex digital link combination
C) High-level data link control
D) Host double-level circuit

78) Flow control is needed to prevent _____.

A) Overflow of the sender buffer
B) Overflow of the receiver buffer
C) Bit errors
D) Collision between sender and receiver

79) In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence numbers?

A) 1 to 63
B) 1 to 64
C) 0 to 63
D) 0 to 64

80) For a sliding window of size n - 1 (n sequence numbers), there can be a maximum of _____ frames sent but unacknowledged

A) 0
B) n
C) n - 1
D) n + 1

81) When data and acknowledgment are sent on the same frame, this is called _____.

A) Backpacking
B) Piggypacking
C) Piggybacking
D) A good idea

82) In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

A) Go-Back-N
B) Stop-and-Wait
C) Selective Repeat
D) (a) and (b)

83) ARQ stands for _____.

A) Automatic repeat request
B) Automatic retransmission request
C) Acknowledge repeat request
D) Automatic repeat quantization

84) In Go-Back-N ARQ, if frames 4, 5, and 6 are received successfully, the receiver may send an ACK _____ to the sender.

A) 5
B) 6
C) 7
D) Any of the above

85) The shortest frame in HDLC protocol is usually the _____ frame.

A) Information
B) Management
C) Supervisory
D) None of the above

86) The address field of a frame in HDLC protocol contains the address of the _____ station.

A) Primary
B) Secondary
C) Tertiary
D) (a) or (b)

87) The HDLC _____ field defines the beginning and end of a frame.

A) Address
B) Control
C) Flag
D) FCS

88) A timer is set when _____ is (are) sent out.

A) An ACK
B) A NAK
C) A data frame
D) All the above

89) For Stop-and-Wait ARQ, for n data packets sent, _____ acknowledgments are needed.

A) n - 1
B) n + 1
C) n
D) 2n

90) What is present in all HDLC control fields?

A) N(R)
B) N(S)
C) Code bits
D) P/F bit

91) If an FDMA network has eight stations, the medium bandwidth has _____ bands.

A) 1
B) 2
C) 8
D) 16

92) In the _____ random-access method there is no collision.

A) CSMA/CD
B) CSMA/CA
C) ALOHA
D) Token-passing

93) In the 1-persistent approach, when a station finds an idle line, it _____.

A) Sends immediately
B) Waits 0.1 s before sending
C) Waits 1 s before sending
D) Waits a time equal to 1 - p before sending

94) _____ requires one primary station and one or more secondary stations.

A) Token ring
B) Reservation
C) Polling
D) CSMA

95) In the p-persistent approach, when a station finds an idle line, it _____.

A) Sends immediately
B) Waits 1 s before sending
C) Sends with probability 1 - p
D) Sends with probability p

96) A network using the CSMA random-access method with p equal to 0.25 will send _____ percent of the time after accessing an idle line.

A) 50
B) 75
C) 100
D) 25

97) The 1-persistent approach can be considered a special case of the p-persistent approach with p equal to _____.

A) 1.0
B) 2.0
C) 0.1
D) 0.5

98) _____ is a random-access protocol.

A) FDMA
B) CDMA
C) MA
D) Polling

99) In the reservation access method, if there are 10 stations on a network, then there are _____ reservation minislots in the reservation frame.

A) 10
B) 11
C) 5
D) 9

100) A Walsh table for 16 stations has a chip sequence of _____ chips.

A) 16
B) 32
C) 4
D) 8

101) _____ is a controlled-access protocol.

A) FDMA
B) TDMA
C) CSMA
D) Reservation

102) _____ is (are) a channelization protocol.

A) FDMA
B) TDMA
C) CDMA
D) All the above

103) _____ is the access protocol used by traditional Ethernet.

A) Token ring
B) CSMA
C) CSMA/CD
D) CSMA/CA

104) The most primitive random access method is _____.

A) Channelization
B) ALOHA
C) CSMA
D) Token passing

105) When a collision is detected in a network using CSMA/CD, _____.

A) The frame is immediately resent
B) The backoff value is decremented by 1
C) A jam signal is sent by the station
D) The backoff value is set to 0

106) In the _____ random-access method, stations do not sense the medium.

A) CSMA/CA
B) ALOHA
C) CSMA/CD
D) Ethernet

107) When a primary device asks a secondary device if it has data to send, this is called _____.

A) Backing off
B) Polling
C) Selecting
D) Reserving

108) If a TDMA network has eight stations, the medium bandwidth has _____ bands.

A) 1
B) 2
C) 8
D) 16

109) If a CDMA network has eight stations, the medium bandwidth has _____ bands.

A) 1
B) 2
C) 8
D) 16

110) If an Ethernet destination address is 08-07-06-05-44-33, then this is a _____ address.

A) Broadcast
B) Unicast
C) Multicast
D) Any of the above

111) What is the hexadecimal equivalent of the Ethernet address 01011010 00010001 01010101 00011000 10101010 00001111?

A) 5A-11-55-18-AA-0F
B) 5A-88-AA-18-55-F0
C) 5A-81-BA-81-AA-0F
D) 5A-18-5A-18-55-0F

112) Which of the following could not be an Ethernet source address?

A) 8A-7B-6C-DE-10-00
B) 8B-32-21-21-4D-34
C) EE-AA-C1-23-45-32
D) 46-56-21-1A-DE-F4

113) What is the efficiency of 4B/5B block encoding?

A) 60 percent
B) 80 percent
C) 20 percent
D) 40 percent

114) Which of the following could not be an Ethernet unicast destination?

A) 44-AA-C1-23-45-32
B) 46-56-21-1A-DE-F4
C) 48-32-21-21-4D-34
D) 43-7B-6C-DE-10-00

115) What is the efficiency of 8B/10B encoding?

A) 80 percent
B) 20 percent
C) 40 percent
D) 60 percent

116) A 10-station Ethernet LAN uses a _____-port bridge if the effective average data rate for each station is 2 Mbps.

A) 10
B) 1
C) 2
D) 5

117) A _____-station Ethernet LAN uses a four-port bridge. Each station has an effective average data rate of 1.25 Mbps.

A) 160
B) 80
C) 40
D) 32

118) An 80-station traditional Ethernet is divided into four collision domains. This means that a maximum of _____ stations contend for medium access at any one time.

A) 20
B) 76
C) 80
D) 320

119) If an Ethernet destination address is 07-01-02-03-04-05, then this is a _____ address.

A) Unicast
B) Broadcast
C) Multicast
D) Any of the above

120) What is the efficiency of a frame in half-duplex Gigabit Ethernet carrying 46 bytes of data?

A) 97 percent
B) 70 percent
C) 56 percent
D) 56 percent

121) Which of the following could not be an Ethernet multicast destination?

A) B7-7B-6C-DE-10-00
B) 7C-56-21-1A-DE-F4
C) 7B-AA-C1-23-45-32
D) 83-32-21-21-4D-34

122) Which of the following is a four-wire Gigabit Ethernet implementation?

A) 1000Base-SX
B) 1000Base-LX
C) 1000Base-T
D) 1000Base-CX

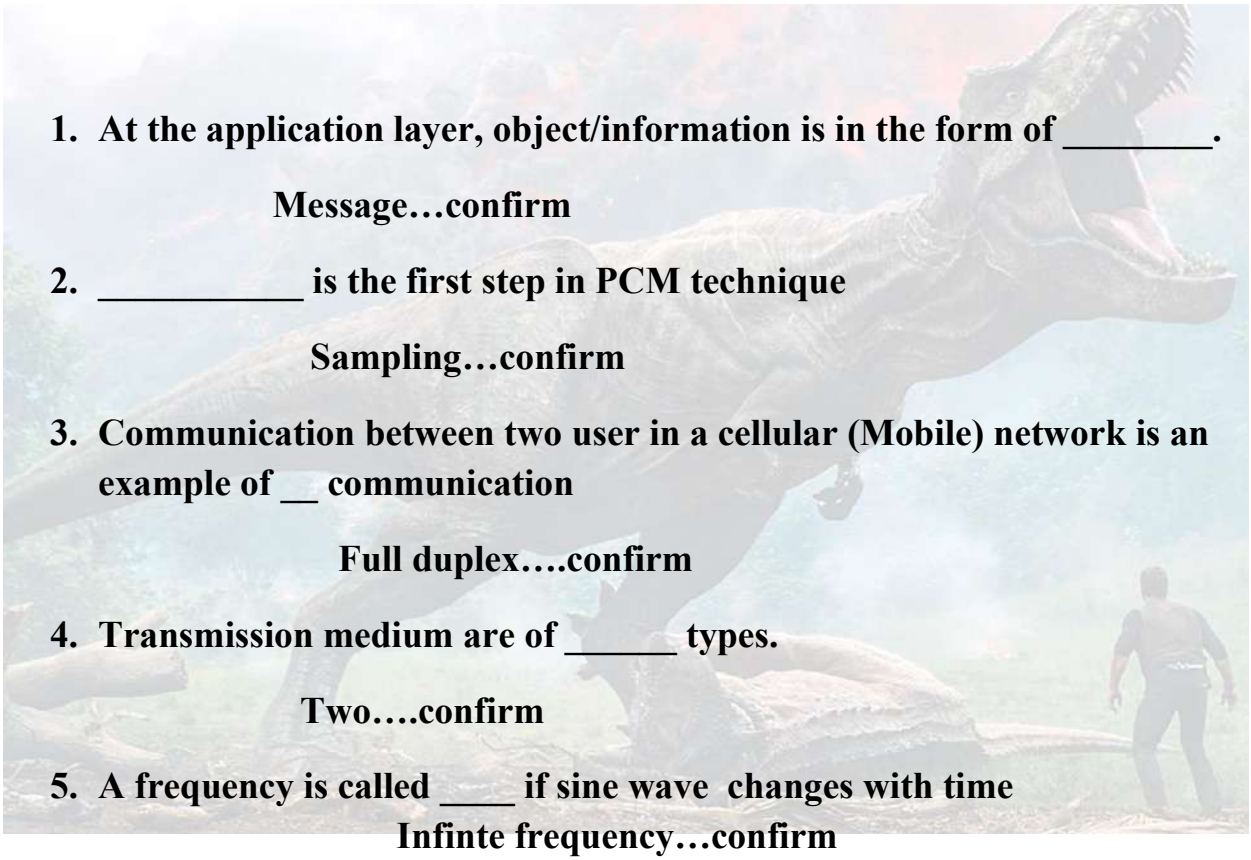
123) Forty stations are on an Ethernet LAN. A 10-port bridge segments the LAN. What is the effective average data rate of each station?

A) 1.0 Mbps
B) 2.5 Mbps
C) 2.0 Mbps
D) 5.0 Mbps

Cs601 Mid term

Topic 1 to 113 cover in this quiz

Orange Monkey Team



1. **At the application layer, object/information is in the form of _____.**

   Message…confirm

2. **_____ is the first step in PCM technique**

   Sampling…confirm

3. **Communication between two user in a cellular (Mobile) network is an example of __ communication**

   Full duplex….confirm

4. **Transmission medium are of _____ types.**

   Two….confirm

5. **A frequency is called ____ if sine wave changes with time**

   Infinte frequency…confirm

6. **A frequency is called ____ if sine wave does not change with time**

   Zero frequency ….confirm

7. **Open system interconnection (OSI) has __ number of layers.**

   7…confirm

8. **In unidirectional antenna, the common point where all the lines intersect each other is ___.**

Focus…confirm

9. **To calculate the data rate for noisy channel ____ formula is used.**

Shannon….confirm

10. **Television broadcast where user can only view the information sent in the form of video is an example of _____ communication.**

Simplex

11. **N= S*r is the formula for finding**

Baud rate…..confirm

12. **TCP/IP protocol suit has _____ layers.**

5….confirm

13. **Unit of phase is _____.**

Degree….confirm

14. **For a noiseless channel theoretical formula to calculate the data rate was developed by.**

Nyquist…..confirm

15. **In context of bandwidth-delay product the cross section of the pipe represents the _____.**

Bandwidth…confirm

16. **Uni polar Polar and Bipolar are types of _____ coding scheme.**

Line…confirm

17. **In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive ant the voltage level for 1 can be negative.**

Polar….confirm

18.In _____ transmission medium start and stop bits are used

Asynchronous….confirm from net

19.In layered architecture of network logical connection between layers means.

They are connected in peers…..confirm

20.OSI stands for _____.

Open system interconnection….confirm

21.Quadrature Amplitude Modulation is the mechanism of _____ conversion.

Digital to analog…confirm

22.Writing used for transmission modes depends upon _____.

Data stream…confirm

23.The maximum bandwidth required for QAM transmission is the same as that required for _ and _____ transmission.

ASK, PSK

24.In optical fiber cable the ratio of the diameter of their core to the diameter of their cladding, both expressed in _____.

Micrometers…confirm

25.Radio waves are propagated in _____ whenever they are transmitted by an antenna.

All direction …confirm from net

26._____component of data communication governs the overall communication on the network.

Transmission medium…confirm

27.In binary ASK, the peak amplitude of one signal level is 0 and the other is the same as the _____.

Amplitude

28.In _____ scheme, all the signal levels are on one side of the time axis, either above or below.

Unipolar…confirm from net

29.Simple sine wave can be used to send.

Amplitude

30.Paging system in data communication uses _____ waves.

Radio waves…confirm from net

31.Multipoint channel can be shared in _____ manner.

Both temporal and spartial…confirm

32._____ is an example of multipoint topology

Bus…confirm

33.Bandwidth can be measured in _____.

Bps…confirm

34.In____encoding scheme, we use three levels positive negative and zero

Bipolar…confirm from net

35.Header size _while moving down the layers at sending side

Decreases

36._____signals have limited number of discrete value

Digital….confirm

37._____ is a block coding method

NRZ-1….confirm

38. Technique that allows the simultaneous transmission of multiple signals across a single data link, is known as _____.

Multiplexing….confirm

39. Simultaneous transmission of multiple signals across a single data link is called.

Multiplexing…confirm

40. Minimum bandwidth required for Manchester line coding scheme is _____.

1Mhz…confirm

41. AMI is a popular _____ encoding method.

Bi-polar….confirm

42. TCP/IP was presented by _____ in a research paper

Vin Cerf and bob Kahn…confirm

43. Among the following cables given below _____ cable has the cost as compared to others.

Medium….confirm

44. Among the following cables given below _____ cable has the lowest cast as compared to others.

Coaxial cable…confirm

45. Among the following cables given below _____ cable has the highest cast as compared to others.

Fiber optic cable…confirm

46._____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

n-1….confirm

47.A twisted pair cable consists of _____ conductors

2 ….confirm

48.Packets travel in ____ layer of TCP/IP protocol suit

Network ….confirm from net

49.HDB3 falls under which coding scheme?

Bipolar…confirm

50.According to the Nyquist theorem, the sampling rate must be at least ____ times the highest frequency contained in the signal.

2…..confirm

51._____ protocol suit is being used by the modern internet communication

TCP/IP…confirm

52.LF(low frequency) band is used in _____ propagation

Ground….confirm

53._____ is a type of serial transmission in which data bits are transmitted as a continuous stream in time with a master clock, start bits, stop bits and gaps are not used. Transmitter and receiver time is sync.

Synchronous….confirm

54.Identify the correct formula to calculate Propagation time.

Propagation time= Distance/ propagation speed….confirm

55.The communication of the application, transport and network layer is _____

Physical…confirm

56.Frames travel in _____ layer of TCP/IP Protocol suite.

Data link

57.Manchester encoding scheme achieves the same level of synchronization as _____.

RZ…..confirm

58.In Manchester and differential Manchester encoding schemes, the signal rate is _____ than that of NRZ.

Double…confirm from net

59.In a bidirectional communication each layer performs two ____ tasks in each direction.

Opposite…confirm

60._____ is composed of thousands of interconnected networks expanded over large geographical area.

Local area network

61.Time taken by a periodic signal to complete one cycle is called.

Period…confirm from net

62.There are __ common scrambling technique

Two ….confirm

63.The bipolar encoding scheme was developed as an alternative of ____.

NRZ…confirm from net

64.FSK stands for _____.

Frequency shift keying….confirm

65.In ___ encoding scheme, the voltage level oscillates between a positive and a negative value although it may remain at zero level between the two values.

Polar…confirm from net

66._____ is an example of transmitter.

Modem

67.The material used for conduction in twisted pair cable is _____.

Copper

68.RG-11 having impedance of 50 ohm is used in _____ Ethernet

Thin….confirm

69._____ encoding scheme is somewhat a combination of the RZ and NRZ-l scheme

Manchester encoding…confirm from net

70._____ has less electromagnetic interference as compared to other guided medium.

Unshielded Twisted Pair

71.Electromagnetic waves ranging in frequencies between _____ are called microwaves.

1 to 300 GHz

72.Switch is a _____ layer devices

Data link…confirm

73._____is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.

Capacity = Bandwidth * log2(1+SNR)….confirm

74._____is the range of frequencies contained in a composite signal.

Bandwidth…confirm

75. In PCM technique Quantization is an _____ process

Un-balanced

76.In Ring topology, each node has a point to point dedicated link with.

Exactly 2 nods….confirm

77.In _____ modulation process is used by the transmitting devices to shift their data to a specific carrier frequency for multiplexing.

Fdm…confirm

78.Five stations will have _____ full duplexed dedicated links among them to be connected in a Mesh topology.

10….confirm

79.Which of the following technique(s) is used for Analog-to-Digital Conversion.

Both Pulse Code Modulation(PCM) and Delta Modulation(DM)…confirm

80.The human voice normally frequency range from _____.

0 to 3000Hz

81.The layer of TCP/IP protocol suite which is on the top is known as _____ layer.

Application…confirm

82.In _____ type of error, two or more bits in the data unit will be changed.

Burst….confirm

83._____ is the process of converting digital data to digital signal.

Line coding…..confrim

84.Manchester encoding scheme uses and inversion at the _____ of each bit.

Middle….confirm

85.FF:FF:FF:FF:FF:FF is a _____ link layer address.

Broadcast…..confrim

86.A3 34 45 11 92 F1 is a _____ link layer address.

Data, unicast….confirm

87.High-Level Data Link Control(HDLC) defines ____ types of frames to deal with the transfer modes.

3…..confirm

88._____ is the number of bits sent in 1 second

Bit rate(bps)…confirm

89._____ Time required to send 1 single bit.

Bit interval…confirm

90._____ are used to transport user data and control information relating to user data

Information frams(I-frames)…..confirm

91._____are used only to transport control information

Supervisory frames(S-frames)…..confirm

92._____are reserved for system Management

Unnumbered frames(U-frames)…..confirm

93._____ are used to exchange session management and control information between connected devices.

U-frames….confrim

94.In order to find Hamming distance between two pair of words _____ logical operation is used.

XOR….confrim

95.Data Link layer receives services from the _____layer.

Physical

96.The _____ is the number of signal elements sent per unit time.

Bit rate…..confrim

97.In order to resolve link layer address of the next node, the first generated ARP request is always in _____ mode.

Broadcast

98.In Block coding we divide our message into blocks of k bits called as _____.

Data words…..confirm

99.To control and manage the transfer of data, a protocol called point to point (PPP) is used at the _____ layer

Data Link

100. In character oriented protocol, each character of frame is encoded using ____ coding system.

ASCII

101. Error detection and correction are the services provided by _____ layer.

Data link layer ….confirm from net

102. _____ is used in the stop-and-wait protocol to overcome the issue of duplication.

Frame sequencing and Acknowledgment numbering…confirm from net

103. Stop-and-weight protocol is used for _____.

Both flow and error control….confirm

104. Error correction is more _____ than the error detection

Difficult…confirm from net

105. Payload field of the PPP frame is of variable size and it can carry maximum data up to_____.

1500 bytes….confirm from net

106. If duration of noise is decreased during a transmission over noisy channel. Fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

More….confirm from net

107. One of the most common protocols for point-to-point access is _____.

PPP…confirm

108. In linear Block codes _____ of two valid code words creates another valid code word.

XOR…confirm

109. Which layer is concerned with the syntax and semantics of info exchange between two systems?

Presentation

110. Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching

false

111. In OSI model headers are added at layer _____.

6,5,4,3,2 only

112. _____ works with topologies in which one drvice is designated as a primary station and the other devices are secondary stations.

Polling

113. Signals travel through fiber optic cable are in the form of _____.

Light…confirm from net

114. PSK is susceptible to the noise degradation.

False

115. What is the frequency of a sine wave if it completes one cycle in 5 seconds?

0.2

116. Which one is not the function of data link layer?

Line discipline

117. Error detection and correction are the services provided by _____ layer.

Data link layer

118. _____ is not a function of Data Link Control.

Modulation

119. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____.

Two adjacent nodes

120. The inversion of the level represents a 1 bit in _____ encoding

NRZ-I

121. Guard bands are used in _____ multiplexing technique, guard bands to avoid overlapping of frequency bands assigned to each user.

FDM…confirm

122. The _____ protocol uses both flow and error control.

Stop-and-Wait

123. Each computer on the Internet has a unique numeric address called a(n) _____.

IP address

124. WDM stands for _____.

Wave Division Multiplexing

125. A fiber -optic cable transmit signals in the form of _____.

Light

126. CDMA stands for _____.

Code Division Multiple Access

127. Quantization is a method of assigning _____ values in a specific range to sampled instances.

Integral

128. STP is more expensive than UTP and is less susceptible to noise.

True

129. In circuit switched networks we have low efficiency but minimal _____.

Delay….confirm

130. Which level of the TCP/IP reference model routes data/information across a network channel?

Network Layer

131. A portion of the path that carries TX between a given pair of devices is known as _____.

Channel

132. Digital signals are refered to be _____.

Discrete

133. BSC supports _____ transmission using _____ flow control.

Half-duplex, Stop and wait ARQ

134. _____ is the rate of change with respect to time.

Amplitude

135. The original Ethernet technology with the data rate of 10 Mbps is called _____?

Standard Ethernet

136. If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations.

16

137. In Pulse Code Modulation (PCM), the sampling is dependent on _____.

Amplitude…confirm

138. The extra bits added with the original data for error detection/correction are called _____.

Redundant bits

139. Which of the following sublyer resolves the contention for the shared media.

MAC

140. PAP and CHAP are used by _____ as Authentication Protocols

PPP…confirm

141. Media Access Control (MAC) and Data link (DLC) constitute _____ layer

Data Link….confirm

142. In _____, each station sends a frame whenever it has a frame to send.

Slotted ALOHA

143. What is the period of a Sine wave having frequency of 10 Hz?

0.1

144. Is there any difference between Data communication and telecommunication are network?

No

145. In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____.

Packetizing

146. _____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

N-1

147. Following characteristics fully describe _____,
Amplitude
Period/Frequency
Phase

Sine Waves

148. What is the period of a Sine wave having frequency of 5 Hz?

0.2

149. The inversion of the level at 1 bit is called as _____.

NRZ-I

150. In _____, both peak amplitude and frequency remains constant as the phase changes.

PSK

151. At the CRC generator, _____ added to the data unit before the divisional process.

0s are

152. In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

Two times

153. In Block coding we divide our message into blocks of k bits called as _____.

Data words

154. Analog refers to something that is continuous in _____.

Time

155. _____ of a signal is the collection of all the component frequencies it contains.

Frequency spectrum

156. _____ encoding is almost obsolete today

Unipolar

157. Which of the following is most affected by noise?

ASK

158. In _____, a signal is directed straight from antenna to antenna.

Line of sight propagation

159. To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

Network

160. The level of signal is always positive in NRZ encoding.

false

161. _____ signal can take infinite levels of intensity over time.

Analog….confirm from net

162. _____ is sometimes called the bit rate.

Data rate…confirm from net

163. _____ contains a repeater.

Active hub

164. _____ is/are un-reliable protocol(s).

UDP

165. Low pass channel has _____ bandwidth between two stations.

Shared…confirm from net

166. The message 1110 sent by a source is received by a destination as 1011. This is _____ type of error.

Burst

167. TROPOSHERE is the layer of atmosphere above the troposphere but below space

False

168. In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

Two times

169. Asynchronous transmission is _____.

Slow

170. Radio is an example of _____ signal conversion.

Analog to analog

171. Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

Longitudinal Red Check (LRC)

172. Session layer is responsible for _____.

Maintaining the connection

173. If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

More

174. S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

Control

175. In ASK, both _____ and _____ remain constant.

Frequency, Phase

176. Encoding digital data into digital signals is called _____.

Digital-to-Digital Conversion

177. GO-BACK-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

Network

178. In ASK correct formula for calculating the bandwidth is as _____.

B=(1+d)S….confirm

179. The type of ALOHA which improves the efficiency of Pure ALOHA is _____.

Slotted ALOHA

180. In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

Polling

181. The _____ generates the data and passes it along with any control information to a _____.

DTE, DCE

182. _____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.

Frame sequencing and Acknowledgement numbering

183. Transmission Control Protocol is a(n) _____ layer protocol.

Network

184. The Internet is _____.

a global network of computers networks

185. We can have _____ different groups with a 4 bit block.

8

186. Analog To Analog Conversion Methods include _____.

AM, PM and FM

187. DLC in Data Link Layer stands for _____.

Data Link Control

188. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 200, 400, 600 and 800?

600

189. _____ category of coaxial cable is used for thin Ethernet.

RG-58….confirm

190. _____ category of coaxial cable is used for thin Ethernet.

RG-8, RG-9, RG-11 …….confirm

191. _____ category of coaxial cable is used for thin Ethernet.

RG-8, RG-9, RG-11 …….confirm

192. _____ category of coaxial cable is used for Cable TV

RG59….confirm

193. In _____, each station is allocated a time slot during which it can send data.

TDMA

194. _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

10BASE-T Ethernet

195. Time domain plot show changes in signal phase with respect to time.

false

196. dB is negative if a signal is _____.

Attenuated

197. Which of the following is not a characteristic of a sine wave?

Segmentation…confirm

198. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 300, 600, 900 and 1200?

900

199. Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

Large

200. A sine wave is defined by _____ characteristics.

3

Switch is a network device which operates on the _____ layer of the TCP/IP protocol suite.

Data link

201. In even parity check code, the value of syndrome is _____ if the number of 1s is even.

0

202. 4Collisions in CSMA/CA are avoided through _____.

All of the given

203. Human voice is example of _____ signal.

Analog

204. Time domain shows changes in _____.

signal amplitude w.r.t time

205. Normally the value of Kmax in pure ALOHA is _____.

15

206. Central Hub in a Tree is an _____.

Active hub

207. In selective-reject ARQ, only the specific damaged or lost frame is _____.

Retransmitted

208. If users must take turns using the link, then it is called Spatial Sharing.

false

209. At the CRC checker, _____ means that the data unit is damaged.

A nonzero remainder

210. Digitizing an Analog Signal is called _____.

Analog-to-Digital Conversion

211. WDM stands for _____.

Wavelength Division Multiplexing

212. What was the main draw back in ALOHA Random-Access method?

All of the given

213. YMODEM has _____ Byte of data unit.

1024

214. Like Data link layer, _____ is also responsible for Flow control.

a. Transport Layer

215. In Block coding scheme, number of code words is always _____ data words.

Equal to

216. RZ stands for _____.

Return ot Zero

217. Line Configuration refers to the way two or more devices attach to a _____.

Link

218. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

Escaped

219. At the Application layer, object/information is in the form of _____.

Packet

220. The term _____means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

Single Bit Error

221. What is the frequency of a sine wave if it completes one cycle in 2 seconds?

0.5

222. POST stand for _____?

Plain Old Telephone Service

223. To make sure that source does not overwhelm destination by sending data faster than it can be handled and processed is called?

Flow Control

224. If a digital signal has "L" number of levels. _____ is the number of bits required to represent each level.

Log base 2 L….confirm

225. In ASK, Noise usually affects the _____.

Amplitude

226. In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

28

227. Which one of the following is not a Channelization Protocol?

CSMA

228. Which one of the following is a correct-access method?

Reservation

229. By using _____ system, change in the file contents during file transmission can be avoided.

Error Detection and Correction

230. Radio wave transmission utilizes _____ different types of propagation.

Five

231. A broadcast signal is received by the orbiting satellites which rebroadcasts _____.

none of the given

232. What is the period of a Sine wave having frequency of 2 Hz?

0.5

233. _____ mode of serial transmission guarantees fixed rate of data.

Isochronous…confirm from net

234. Time division multiplexing is used in _____ systems.

Digital….confirm from net

235. The most common type of connector used by coaxial cable is _____.

BNC

236. Which of the following statement is correct?

Digital signals are less prone to Noise

237. In an analog hierarchy to carry voice channels, a group can carry _____ voice channels.

12(4khz)….confirm

238. In an analog hierarchy to carry 12 voice channels, 5 group _____

48kHz….confirm

239. In an analog hierarchy to carry 60 voice channels, a 10 super group _____bandwidth

240kHz….confirm

240. In an analog hierarchy to carry 600 voice channels, a 6 Master group _____

2.52Mhz….confirm

241. In an analog hierarchy to carry 3600 voice channels, a Jumbo group _____

16,984MHz …..confirm

242. In line discipline after the data transmission, the sending system finishes with an _____ frame.

EOT

243. Data is transmitted using light through a _____ cable.

fiber-optic

244. Data Link layer provides services to the _____ layer.

Network

245. If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.

≠ 0

246. _____ is responsible for governing node to node communication.

Data Link layer

247. Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

Metropolitan Area Network

248. In frequency shift keying, _____ remain(s) constant.

Both Peak amplitude and Phase …confirm

249. In Amplitude shift keying, _____ remain(s) constant.

Both frequency and phase…confirm

250. In Phase shift keying, _____ remain(s) constant.

Both peak amplitude and frequency…confirm

251. Analog signals are refers to be _____

Continuous

252. Baud rate is greater than or equal to the bit rate.

False

253. In statistical time division multiplexing, number of slots in frame are less than _____.

Input lines…..confirm

254. _____ are used to exchange session management and control information between connected devices.

U-frames

255. Terminal, microprocessor, computer, printer or any other device that generates or consumes digital data is known as _____

DTE

256. There are three types of Hubs that exist. Which of the following options correctly describes these three?

Passive, Active, Intelligent

257. Which of the following consist of just one redundant bit per data unit?

Simple Parity Check

258. In the encoding where positive to negative transition is one and vice versa is zero.

None of given option

259. Error correction is more _____ than the error detection.

Difficult

260. If the window size is 63 in go-back N ARQ then what is the range of sequence number?

0 to 63

261. _____ is normally used where speed is priority in data transfer.

Hybrid transmission

262. In Synchronous TDM, Time slots are not same in number as input devices.

False

263. In analog transmission, the base signal is called the_____.

Carrier Signal

264. In _____ a dedicated communication path is established between two stations through the nodes of the network

Circuit switching

265. Which one of the following is a Random-Access protocol?

CDMA/CD

266. A _____ modem is used to connect two DTEs directly.

NULL

267. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

Escaped

268. _____ is an Authentication Protocol, which is used by the PPP to authenticate passwords.

PAP

269. In CRC there is no error if the remainder at the receiver is _____.

Zero

270. VCI address is _____ address in virtual circuit approach.

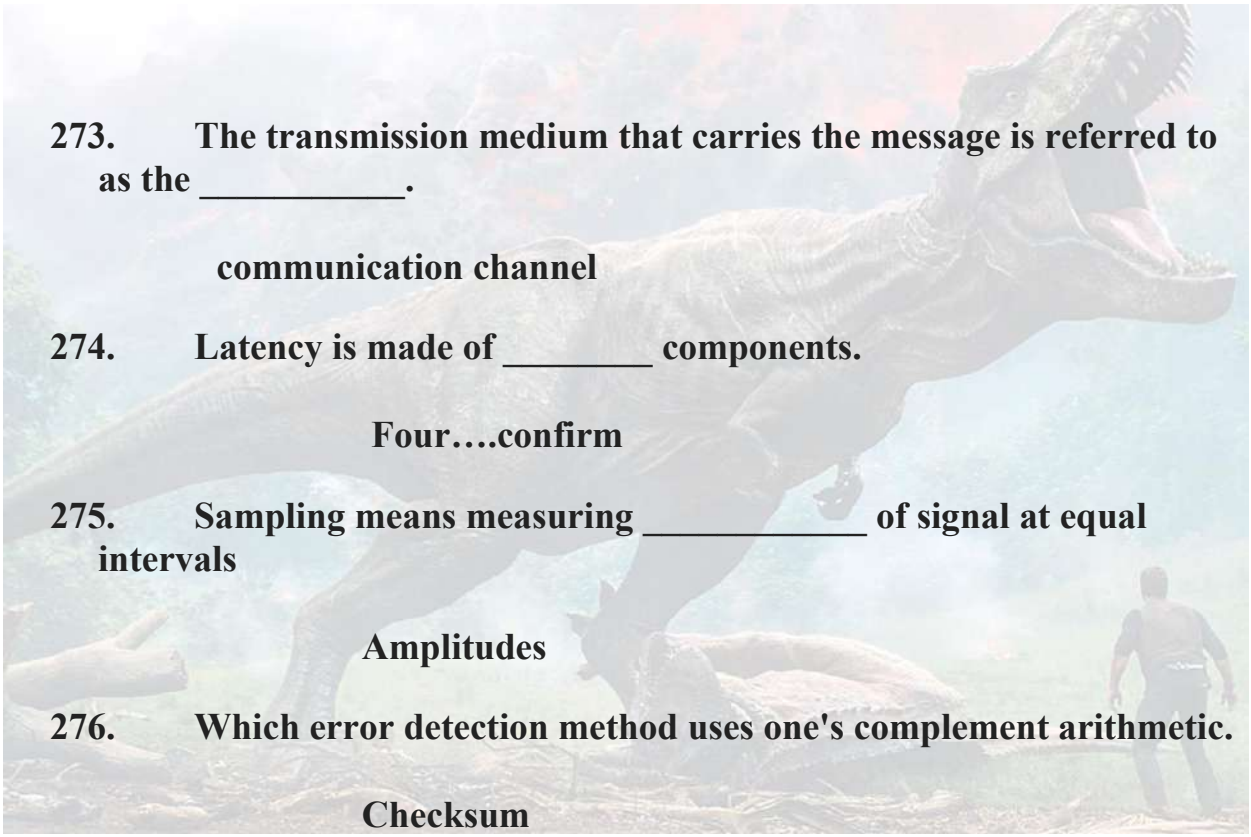
Global…confirm from net

271. _____ is an Authentication Protocol, which uses two-step process to authenticate user information.

PAP

272. Possession of TOKEN gives the station the right to _____.

Send the data



273. The transmission medium that carries the message is referred to as the _____.

communication channel

274. Latency is made of _____ components.

Four….confirm

275. Sampling means measuring _____ of signal at equal intervals

Amplitudes

276. Which error detection method uses one's complement arithmetic.

Checksum

277. To calculate the data rate for noisy channel _____ formula is used.

Shannon…..confirm

278. To calculate the data rate for noisless channel _____ formula is used.

Nyquist….confirm

279. Checksum is an error-detection technique that can be applied to a message of _____ length.

Any

280. In _____ each band is reserved for a specific ststion, and it belongs to the station all the time.

FDMA

281. Flow control is needed to prevent _____.

Overflow of the receiver buffer

282. Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.

FSK, PSK

283. Like 10 Base 5, 10 Base 2 is a _____ topology LAN.

Bus

284. In the _____ method, the stations in a network are orgamized in a logical ring.

Token-passing

285. Two or more computers connected so that they can communicate with each other and share information is called a _____.

network

286. The logical connection between the peer layers is _____ connection.

Direct….confirm from net

287. In CSMA/CA, _____ is the amount of time divided into slots.

Contention Window

288. _____ relative measures the strength of two signals.

Decibal ….confirm

289. A sine wave is _____.

periodic and continuous

290. There are _____types of guided media.

3

291. AM signal requires _____ the BW of original signal

Twice

292. CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

Three-way

293. There are _____ types of serial transmission.

2

294. There are _____ basic categories of multiplexing.

3

295. Congestion Control is a feature of layer(s).

All mentioned

296. Most commonly used connector for twisted pair cable is _____.

RJ-45….confirm from net

297. _____ does not happen until all the data is transferred and all of the resources are freed.

Switching

298. A local telephone network use _____network.

Circuit switched…confirm from net

299. Microwaves are _____.

Unidirectional ….confrim

300. _____have established standards for using these signals for communication between devices such as keyboards, mice, PCs and printers

Infrared waves…confirm from net

301. Datagram approach and virtual circuit approach are two popular approaches which lead us to _____.

Circuit switching….confirm

302. In circuit switching when two end devices 'A' and 'B' connects with each other they send ____ request.

Acceptance

303. In optical fiber a glass or plastic core is surrounded by a _____.

Cladding…confirm

304. _____ are used for multicast communication, such as radio and television.

Radio waves…confirm

305. DLC in data link layer stands for ____

Data Link control….confirm

306. In virtual Circuit network all packets follow _____ path

Dedicated

307. Multi mode technology has _____ main types for light propagating.

Two

308. If the message is going to pass through a packet-switched network. If can be divided into packets of _____.

Both fix and variable size

309. According to state, fewer than _____ crossbar points can be used at once.

25%

310. _____ and _____ are the two types of addressing in virtual circuit approach.

Local, Global

311. Cable TV networks use _____ cables

Coaxial….confirm from net

312. The size of the packet is determined by the network and _____.

Governing Protocol

313. In circuit switching total delay is combination of connection time. Data transfer time and _____

Connection tear down time

314. Which one of the following is not among the required phases for the actual communication in a circuit-switched network?

Protocol

315. Electromagnetic waves ranging in frequencies between 1 and 300 GHz are called _____.

Microwaves

316. If we increase the data rate of a transmission over noisy channel, fixed noise duration will cause _____ number of bits being impacted by the noise.

Less

317. In case of higher data rate, the number of impacted bits will be _____.

Higher

318. In baseband transmission, a digital signal is transmitted as_____.

Analog signal….confirm from net

319. _____ Cable is used in wavelength division multiplexing.

Fiber optic….confirm from net

320. The ———— technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.

DSSS…confirm from net

321. When the bandwidth of a link is greater than combined bandwidths of the

Frequency division….confirm from net

322. According to the Fourier analysis, frequencies obtained after decomposition of no period.

Continuous……confirm from net

323. Router is a network device which operates on the __ layer of the TCP/IP protocol.

Network…confirm from net

324. Uni polar, polar and bipolar are the types of ————

NRZ-I….confirm from net

325. According to stats, lower than ————- crossbar point can be used at once .

25%....confirm from net

326. In ——— TDM, slots are dynamically allocated to the connected stations to improve bandwidth efficiency.

Statistical…confirm from net

327. In star based network comprising of four computers and on switch, total number of cables needed will be ———-

4…confirm from net

328. The conversion of analog sample of the signal into digital form is called _____ process.

Sampling and quantizing…confirm from net

329. On a communication link, different channels are separated by unused strips of bandwidth called as ————-.

Guard band

330. ———— is an example of host in a network.

Computer…confirm from net

331. In ————— TDM, each input connection has an allotment in the output even if is not sending data.

Synchronous …confirm

332. ———— coding scheme are useful for LAN but not for long ranges

Biphase…confirm

333. In ———— signal changes its shape or form.

Distortion…confirm

334. ————- Protocol suite is being used by the modern internet communication.

TCP/IP…confirm from net

335. in NRZ-1 the signal is inverted if ————- is encountered.

1…confirm from net

336. Simultaneous transmission of multiple signal across a single data link is called——

Multiplexing..confirm from net

337. Two stations are connected via a secure link in which messages are encrypted from source to the destination message is called————————

Protocol

Which one of following is a scrambling coding technique?

- **B8ZS**

According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

Discrete

_____ is the heart of blocking code.

- **Coding**

Wireless transmission can be divided into_____ broad groups.

Three…confirm from net

Wiring used for transmission modes depends upon_____.

- **Latency**

If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.

- **10 bps…confirm**

If the message going to pass through a packet-switched network, it can be divided into packets of_____.

- **Both fix and Variable size**

In an analogue hierarchy to carry voice channels, a group can carry _____voice channels.

12

In optical fiber a glass or plastic core is surrounded by a _____.

- **Cladding**

In transmission impairments _____ noise occurs from other source like

Induced…confirm

_____ is a digital process that allows connections to share the high bandwidth of a link.

- **TDM**

Bandwidth in hertz in the range of_____ contained in a composite signal.

- **Frequencies**

LAN stands for _____.

- **Local Area Network**

Demultiplexer is a_____ device.

- **One to many**

Mr. Asif while sitting in Lahore is linking with his friend in Dubai through Skype is a_____.

- **Wide Area Network**

In _____ modulation, frequency and amplitude remain constant.

- **Amplitude**

In TDM based digital hierarchy used by the Telephone companies, DS-1 is a single digital channel of_____.

- **1.544 Mbps…confirm**

In TDM based digital hierarchy used by the Telephone companies, DS-2 is a single digital channel of_____.

6.312 Mbps…confirm

In TDM based digital hierarchy used by the Telephone companies, DS-3 is a single digital channel of_____.

44.376MBps…confirm

In TDM based digital hierarchy used by the Telephone companies, DS-4 is a single digital channel of_____.

274.176 MBps…..confirm

The bandwidth-delay product defines the number of bits that can fill the _____.

- **Link**

If a digital-signals has four levels, then we need _____ bits to represent each level.

- **2**

Routing is a function of_____ layer.

- **Network**

_____ relatively measures the strength of two signals.

- **Decibel**

Taking off the header from the message is called_____.

- **Encryption**

In frequency domain plot, which value is replaced with frequency?

- **Wavelength**

_____ is the process of converting binary data to a digital signal.

- **Line coding**

Low pass channel with _____ bandwidth is not real and is used for theoretical modeling.

- **Narrow or wide…both are confirm**

Unit of phase is_____.

- **Degree**

BFSK stands for_____.

- **Binary Frequency Sift Key**

_____ is NOT an example of connecting device.

- **TCP**

Coaxial cables are categorized by their_____ ratings.

Radio Government (RG)….confirm

Which one of the following is not among the required phases for the actual communication in a circuit switched network

- **Protocol**

A common bipolar encoding scheme is called _____.

- **AMI**

A telephone line analog signal has got the bandwidth of _____.

4 kHz…confirm

In _____ systems, resources are allocated on demand.

- **Circuit switching**

A fiber-optic cable transmit signals in the form of_____.

- **Light**

Composite wave can be used to send _____.

- **Frequency**

Routing is the function of _____ layer.

- **Network**

A virtual-circuit network operates on _____layer.

- **Datalink**

In TCP\IP model, the Physical Layer exchanges data in the form of _____.

- **Bits…confirm**

_____ signal completes certain pattern in a specific amount of time.

- **Periodic**

If a digital signal has four levels, the we need _____bits to represent.

- **2**

We can have combination of_____ possible codes with a 5-bit code.

- **32**

There are _____categories of multiplexing.

- **3**

Top most organization that provides support for the Internet Standard process is called_____.

- **IETF**

If the message is going to pass through a packet-switched network, it can be divided into packets of_____.

- **Both-fix and variable size**

_____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.

Synchronous…confirm

In frequency modulation, the frequency of the oscillator changes according to the_____.

- **Input Voltage**

Binary Amplitude Shift Keying also called as:

- **On-Off Keying**

Bi-polar uses_____ voltage levels.

Two

In serial data transmission _____ data transmission mode can be cheap but slower.

- **Asynchronous**

In star-based network comprising of four computers and one switch, total number of cable needed will be_____.

- **4**

Parabolic antenna is used for_____ communication.

- **Microwave…confirm**

In circuit switching total Delay is combination of Connection Time and_____.

- **Connection tear down time**

Datagram switching is done on_____.

- **Network Layer**

Token Ring was devised by_____.

- **IBM…confirm**

In TDM based digital hierarchy used by the Telephone companies, DS-0 is a digital channel of_____.

- **64 kbps…confirm**

_____can be published using Request for Comments (RFCs).

- **Internet Draft….confirm**

In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

- **Thermal noise…confirm**

Which one of the following is among the required phases for the actual communication in a circuit switched network?

- **Data transfer**

According to the Fourier analysis, frequencies obtained after decomposition of non-periodic digital signals are_____.

- **Bit length**

The most common type of connector used by the coaxial cable is_____.

- **BNC**

When data is sent or received using_____ the data bits are organized in a specific order, since they can only be sent or received one after another.

Serial data transmission

_____have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

- **Infrared waves**

In case of Frequency shift key, the difference between two frequency is represented as_____.

- **2 delta….confirm**

_____category of coaxial cable is used for thin Ethernet.

- **RG-58**

Cellular telephone uses_____ waves for communication.

Radio waves

_____ layer is responsible for the creating of the datagrams.

- **Network**

In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI always_____.

- **Remain the same**

According to stats, fewer than_____ crossbar points can be used at once.

- **25%**

Data format used at Transport layer of TCP\IP protocol suit is called_____.

- **Packet**

A virtual circuit network operates on _____ layer.

- **Application**

If 32 bits are sent in two seconds then the bitrate for that signal is_____.

- **64 bps**

- **_____ normally used for long-distance data transfer.**
- **Both parallel and Serial data transmission**

_____ is a block coding method.

- **8B\10B**

TCP\IP was chosen to be the official protocol of internet _____.

- **1983**

To measure the data rate _____ theoretically formula(s)Were developed.

- **Four**

In FSK, Baud rate is less than or equal to _____ rate.

Bit rate…..confirm

_____ signal is represented by the discrete values.

- **Digital**

Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.

- **Radio waves**

Suppose a signal is amplitude then the value od decibel will be _____.

- **Positive**

_____ technique does not follows analog conversion.

- **QAM**

In Pulse Code Modulation (PCM), the sampling is dependent on_____.

- **Amplitude**

_____ is the sub type of Time Division Multiplexing Technique.

- **Statistical TDM**

Modulation of analog signal is needed if the medium is _____ in nature.

- **Bandpass**

Quadrature Amplitude Modulation (QAM) is the combination of_____ and _____.

ASK-FSK

There _____ components of data communication system.

5…confirm

QPSK stands for_____.

- **Quadrature phase shift key**

To calculate the data rate for noisy channel_____ formula is used.

- **Shannon**

Binary Amplitude Shift Keying(ASK) is also called as:

- **On-Off Keying….confirm**

Some manufacturers provide a special port called the_____.

- **IrDA**

To calculate the data rate for noiseless channel _____ formula is used.

- **Nyquist**

Two PCs and one printer are connected in a network within a room, it is an example of _____.

- **LAN…confirm from net**

Analog the following cables given, _____ cable provides highest bandwidth and less attenuation.

- **Fiber optical**

To calculate the data for noisy channel_____ formula is used.

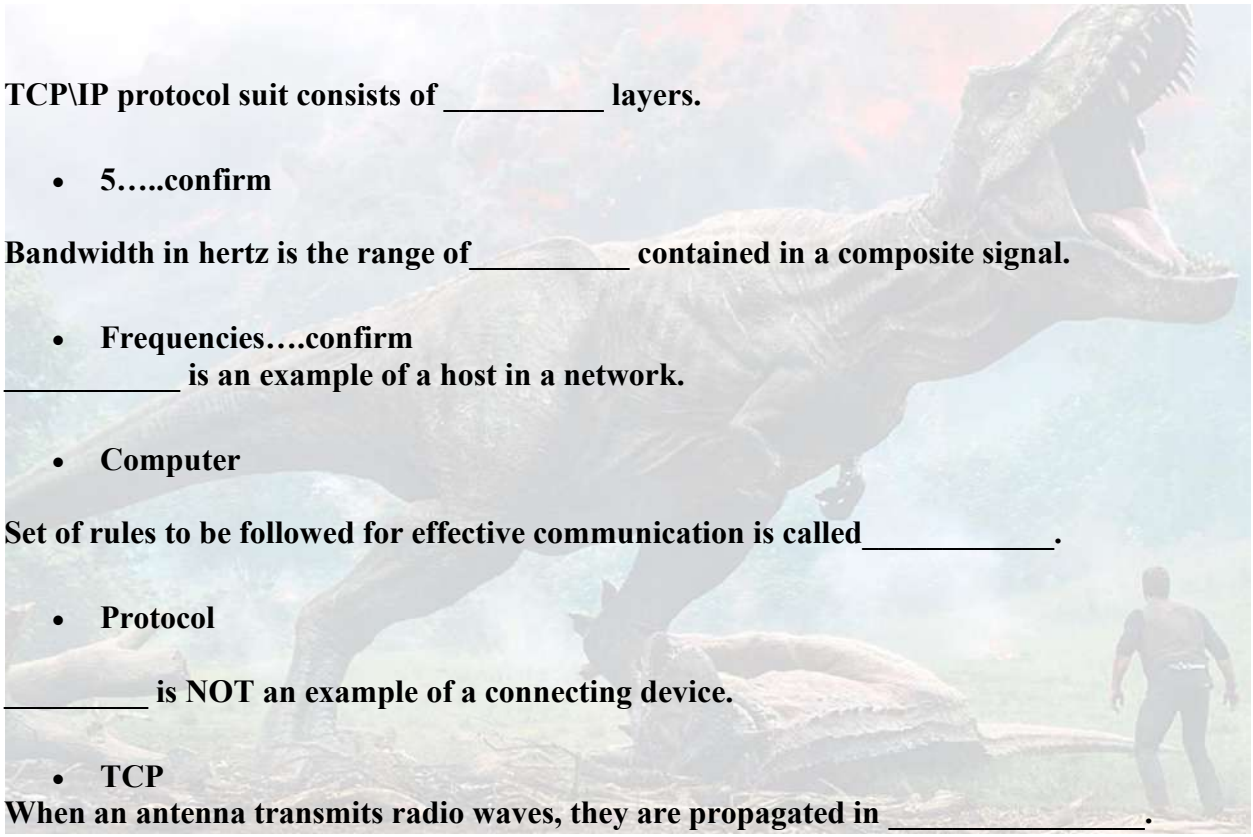
- **Shannon**

In circuit switched networks we have low efficiency but minimal _____.

- **Delay**

Polar encoding scheme uses_____ voltage level.

- **2….confirm**



TCP\IP protocol suit consists of _____ layers.

- **5…..confirm**

Bandwidth in hertz is the range of_____ contained in a composite signal.

- **Frequencies….confirm**

_____ is an example of a host in a network.

- **Computer**

Set of rules to be followed for effective communication is called_____.

- **Protocol**

_____ is NOT an example of a connecting device.

- **TCP**

When an antenna transmits radio waves, they are propagated in _____.

- **Only up and down direction**

Which one of the following is not a bipolar encoding level?

- **One**

_____and_____ are the two types of addressing in virtual circuit approach.

- **Local, Global**

In transmission implements_____ noise occurs from the effect of one wire on the other

- **Cross talk…confirm**

In computer network the stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____.

- **Bus**

In scrambling coding scheme, the number of pulses replacing the bits will be_____?

- **Equal to pulses…..confirm**

In the context of analog to analog signal conversation technique. "PM" Stands for_____.

- **Phase modulation**

_____ relatively measurement the strength of two signals.

- **Decibel**

Datagram approach and circuit approach are two popular approaches which lead us to_____.

- **Packet switching**

In virtual circuit approach when frame enters a switch and when it leaves a switch its VCi always_____.

- **Remain the Same**

_____ means loss of energy in signal.

Attenuation

A local telephone network use _____network.

Circuit switched

In Amplitude Shift Keying. _____of the signal is/are changed.

- **Amplitude**

In frequency domain plot, which value is plot on Y-axis?

- **Amplitude….confirm**

In pulse code modulation the term sampling can also be referred as_____.

- **Pulse Amplitude Modulation**

In analog transmission of digital data, the required bandwidth is always proportional to the signal rate expect in _____ a digital to analog conversion technique.

- **ASK**

WDM stands for_____.

- **Wavelength Division Multiplexing**

_____ does not follows analog to analog conversion.

- **QAM**

On a communication link, different channels are separates by unused strips of bandwidth called as_____.

- **Guard band**

_____ layer converts frames coming from Data Link Layer into bits and sends

Them on the transmission medium.

- **Physical**

Wavelength binds the_____ of a simple sine wave to the propagation speed of the medium.

Period of the frequency book page 61

The bandwidth delay product define the number of bits that can fill the_____.

Network

The size of the packet determined by the network and _____.

Governing protocol

To improve the performance of line coding _____coding was……?

- **Block coding…confirm**

Which one of the following is not a sampling technique?

- **Neutral sampling**

_____is normally used where speed is priority in data transfer.

Hybrid transmission

In a computer network, five stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____ topology.

Mesh…confirm

Some manufacturer provide a special port called the_____port that allows a wireless keyboard to communicate with a PC.

- **IrDA**

Current technology supports_____ modes for propagation of light.

- **Two**

We quantize the sampling output into certain levels based on range of_____ and required accuracy.

- **Amplitude….confirm**

_____is the Nyquist bit rate formula for noiseless channel.

- **BitRate=2*Bandwidth*log2 L…confirm**

A frequency is called _____, if the rate of change in sine wave Is Instantaneous.

- **Infinite frequency book page 59**

Which multiplexing technique involves signals composed of light beams?

- **WDM….confirm**

_____ is a multiplexing technique which shifts each signal to a different carrier frequency.

- **FDM…confirm**

Entire band in United States is regulated by_____ authorities.

- **FCC**



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Question 1: The _____ protocol uses both flow and error control.

Options:

A) TCP/IP

B) ICMP

C) Stop-and-Wait

D) HDLC

Correct option: D) HDLC

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Question 2: Packet Switching operates on _____ layer.

Options:

A) Network layer

B) Application layer

C) Data link layer

D) Data link layer

Correct option: A) Network layer

Question 3: In even parity check code, the value of syndrome is _____ if the number of 1s is even.

Options:

A) 01

B) 2

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C) 4

Correct option: C) 4

Question 4: _____ is not a function of Data Link Control.

Options:

A) Modulation

B) Flow Control

C) Framing

D) Error Control

Correct option: A) Modulation

Question 5: CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

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Options:

A) 2

B) 3

C) 4

D) 5

Correct option: Challenge-Response

Question 6: Stop-and-Wait protocol is used for _____.

Options:

A) Flow control only

B) Both flow and error control

C) Error control only

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D) Neither flow nor error control

Correct option: B) Both flow and error control

Question 7: In Block coding, we divide our message into blocks of k bits called as _____.

Options:

A) Code words

B) Passwords

C) Crosswords

D) Data words

Correct option: A) Code words

Question 8: Connection setup means using _____ channels in circuit-switched network.

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Options:

A) Dedicated

B) Communication

C) Satellite

D) Authenticated

Correct option: A) Dedicated

Question 9: The message 110 sent by a source is received by a destination as 111. This is _____ type of error.

Options:

A) Burst

B) Single-Bit

C) Multi-Bit

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D) Byte

Correct option: B) Single-Bit

Question 10: In a datagram network, each data packet contains its _____.

Options:

A) ID

B) Number

C) Name

D) Address

Correct option: D) Address

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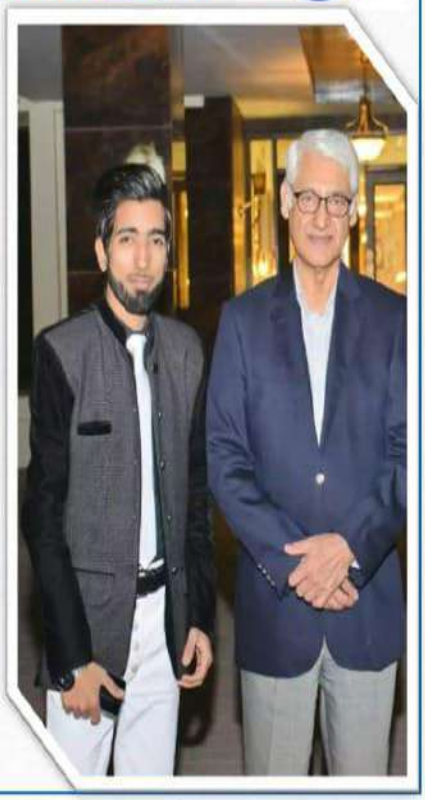
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Television broadcast where user can only view the information sent in the form of video is an example of_____ communication.

A. Simplex
B. Complex
C. Full duplex
D. Half duplex

_____is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.

Capacity=Bandwidth*log2(1+SNR)

Two stations are connected via a secure link in which messages are encrypted from source to the destination. This encrypted message is called _____ .

A. Message
B. Protocol
C. Plain text
D. Cipher text

Taking off the header from the message is called _____.

A. Stuffing
B. Layering
C. Encryption
D. Decapsulation

_____ is the range of frequencies contained in a composite signal.

A. Noise
B. Phase
C. Amplitude
D. Bandwidth

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_____is the data format used at Transport layer of TCP/IP Protocol suite.

A. packet
B. segment
C. bit
D. frame

Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

A. Wide Area Network
B. Local Area Network
C. Home Based Network
D. Metropolitan Area Network

In a complex network communication, we need a protocol at each layer, this process is called _____.

A. Topology
B. Encryption
C. Protocol Layering

Question No:1 (Marks:1) Vu-Topper RM

The most common type of connector used by coaxial cable is _____.

A. BNC
B. RJ-11
C. RJ-57
D. RJ-45

Question No:2 (Marks:1) Vu-Topper RM

Quadrature Amplitude Modulation is the mechanism of _____ conversion.

A. Digital to analog
B. Analog to Analog

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C. Analog to digital
D. Digital to digital

Question No:3 (Marks:1) Vu-Topper RM

___have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

A. Microwaves
B. Radio waves
C. Simple waves
D. Infrared waves

Question No:4 (Marks:1) Vu-Topper RM

WDM stands for _____.

A. Worst Data Manipulation
B. Wideband De-Modulation
C. Wideband Division Multiplexing
D. Wavelength Division Multiplexing

Question No:5 (Marks:1) Vu-Topper RM

Voltage controlled oscillator(VCO) generates _____ .

A. Carrier Signals
B. Periodic signals **Google**
C. Signal elements
D. Composite Signals

Question No:6 (Marks:1) Vu-Topper RM

A virtual-circuit network operates on _____ layer.

A. Network **Google**
B. Physical
C. Datalink
D. Application

Question No:7 (Marks:1) Vu-Topper RM

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Top most organization that provides support for the Internet Standard process is called_____.

A. Internet Society (ISOC)
B. Internet Architecture Board (IAB)
C. IETF
D. IRTF

Question No:8 (Marks:1) Vu-Topper RM

In pulse code modulation the term sampling can also be referred as_____.

A. Pulse Amplitude Modulation
B. Pulse sample Modulation
C. Pulse line modulation
D. Pulse Frequency Modulation

Question No:9 (Marks:1) Vu-Topper RM

Unit of phase is _____.

A. Watts
B. Bauds
C. Degree
D. Bits per second

Question No:10 (Marks:1) Vu-Topper RM

Entire band in United States is regulated by_____ authorities.

A. ITU
B. FCC
C. ANSI
D. NASA

Question No:11 (Marks:1) Vu-Topper RM

In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of

A. 64 kbps

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B. 32 kbps
C. 128 kbps
D. 1.544 Mbps

Question No:12 **(Marks:1)** **Vu-Topper RM**
Radio waves are propagated in_____ whenever they are transmitted by an antenna.

A. All direction
B. Left direction
C. Right direction
D. Only up and down direction

Question No:13 **(Marks:1)** **Vu-Topper RM**
A switched network consists of a series of interlinked _____ called switches.

A. Root
B. Nodes **Google**
C. Points
D. System

Question No:14 **(Marks:1)** **Vu-Topper RM**
In circuit switched networks we have low efficiency but minimal _____.

A. Delay
B. Error
C. Speed
D. Throughput

Question No:15 **(Marks:1)** **Vu-Topper RM**
In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

A. Thermal noise
B. Impulse noise

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C. Cross talk
D. Induced noise

Question No:16 **(Marks:1)** **Vu-Topper RM**
In Amplitude Shift Keying. _____of the signal is/are changed.
A. Amplitude and Frequency
B. Amplitude
C. Frequency and Amplitude
D. Phase

Question No:17 **(Marks:1)** **Vu-Topper RM**
A twisted pair cable consists of _____conductors.
A. Two
B. Five
C. Four
D. Three

Question No:18 **(Marks:1)** **Vu-Topper RM**
We quantize the sampling output into certain levels based on range of_____ and required accuracy.
A. Frequency
B. Amplitude
C. Time period
D. None

Question No:19 **(Marks:1)** **Vu-Topper RM**
In star based network comprising of four computers and one switch, total number of cables needed will be_____.
A. 1
B. 2
C. 3
D. 4

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Question No:20 **(Marks:1)** **Vu-Topper RM**

Which of the following is not a characteristic of a sine wave?

A. Amplitude
B. Segmentation
C. Phase
D. Frequency

Question No:21 **(Marks:1)** **Vu-Topper RM**

In a computer network, five stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____ topology.

A. Bus
B. Ring
C. Star
D. Mesh

Question No:22 **(Marks:1)** **Vu-Topper RM**

_____ can be published using Request for Comments (RFCs).

A. Proposed Standard
B. Draft Standard
C. Internet Draft
D. Internet Standard

Question No:23 **(Marks:1)** **Vu-Topper RM**

In serial data transmission _____ data transmission mode can be cheap but slower.

A. Synchronous
B. Asynchronous
C. Isochronous
D. Metachronous

Question No:24 **(Marks:1)** **Vu-Topper RM**

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QPSK stands for _____.

A. Quality phase shift key
B. Queuing phase shift key
C. Quadrature phase shift key
D. Quality physical shift key

Question No:25 (Marks:1) Vu-Topper RM

In _____, the instantaneous change in the carrier frequency is proportional to the derivative of the amplitude of the modulating signal.

A. Phase modulation
B. Frequency modulation
C. Amplitude modulation
D. Quadrature modulation

Question No:26 (Marks:1) Vu-Topper RM

In FSK, Baud rate is less than or equal to _____ rate.

A. Bit
B. Byte
C. Signal
D. Decibel

Question No:27 (Marks:1) Vu-Topper RM

Bi-polar uses _____voltage levels.

A. One
B. Two
C. Three
D. Four

Question No:28 (Marks:1) Vu-Topper RM

Low pass channel has _____ bandwidth between two stations.

A. Dedicated
B. Shared
C. Multiplexed

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D. Infinite

Question No:29 **(Marks:1)** **Vu-Topper RM**

Them on the transmission medium.

A. Application
B. Physical
C. Network
D. Transport

Question No:30 **(Marks:1)** **Vu-Topper RM**

Block coding scheme contains_____ number of steps.

A. 3
B. 4
C. 5
D. 6

Question No:31 **(Marks:1)** **Vu-Topper RM**

BFSK stands for_____.

A. Baud Frequency Shift Key
B. Binary Frequency Sift Key
C. Barrier Frequency Shift Key
D. Bridge Frequency Shift Key

Question No:32 **(Marks:1)** **Vu-Topper RM**

According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

A. Continuous
B. Discrete
C. Bit length
D. Homogeneous

Question No:33 **(Marks:1)** **Vu-Topper RM**

Suppose a signal is amplified then the value of decibel will be_____.

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A. 0
B. 1
C. Negative
D. Positive

Question No:34 (Marks:1) Vu-Topper RM
In frequency domain plot, which value is replaced with frequency?
A. Wavelength
B. Amplitude
C. Phase
D. Time

Question No:35 (Marks:1) Vu-Topper RM
We can have _____different groups with a 4 bit block.
A. 4
B. 6
C. 7
D. 8

Question No:36 (Marks:1) Vu-Topper RM
_____ means loss of energy in signal.
A. Noise
B. Delay
C. Attenuation
D. Distortion

Question No:37 (Marks:1) Vu-Topper RM
Uni polar, polar and bipolar are the types of _____
A. Line
B. Differential Manchester
C. NRZ-I

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D. Block

Question No:38 **(Marks:1)** **Vu-Topper RM**

If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.

A. 5 bps
B. 10 Hz
C. 50 bps
D. 0.2 bps

Question No:39 **(Marks:1)** **Vu-Topper RM**

_____ signal completes certain pattern in a specific amount of time.

A. Non-periodic
B. Periodic
C. A Periodic
D. Wavelength

Question No:40 **(Marks:1)** **Vu-Topper RM**

To calculate the data rate for noisy channel _____ formula is used.

A. Shannon
B. Nyquist bit rate
C. Propagation
D. Greedy

Question No:41 **(Marks:1)** **Vu-Topper RM**

_____mode of serial transmission guarantees fixed rate data.

A. Synchronous
B. Asynchronous
C. Isochronous
D. Metasochronous

Question No:42 **(Marks:1)** **Vu-Topper RM**

In TCP\IP model, the Physical Layer exchanges data in the form of ___.

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A. Packets
B. Frames
C. Bits
D. Segments

Question No:43 **(Marks:1)** **Vu-Topper RM**

_____ signal is represented by the discrete values.

A. Analog
B. Digital
C. Both
D. Continuous

Question No:44 **(Marks:1)** **Vu-Topper RM**

A common Bipolar encoding scheme is called _____.

A. AMI
B. NRZ
C. RZ
D. QAM

Question No:45 **(Marks:1)** **Vu-Topper RM**

_____ relatively measures the strength of two signals.

A. Signal rate
B. Bit rate
C. Decibel
D. Pulse rate

Question No:46 **(Marks:1)** **Vu-Topper RM**

Two PCs and one printer are connected in a network within a room; it is an example of _____.

A. LAN
B. WAN

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Vu Topper RM

C. MAN
D. ALN

Question No:47 (Marks:1) Vu-Topper RM

In analog transmission of digital data, the required bandwidth is always proportional to the signal rate except in _____, a digital to analog conversion technique.

A. ASK
B. NSK
C. FSK
D. PSK

Question No:48 (Marks:1) Vu-Topper RM

A local telephone network use _____ network.

A. Line switched
B. Circuit switched
C. Bit switched
D. Packet switched

Question No:49 (Marks:1) Vu-Topper RM

In an analogue hierarchy to carry voice channels, a super group _____ bandwidth.

A. 60kHz
B. 240 Hz
C. 240 kHz
D. 120 kHz

Question No:50 (Marks:1) Vu-Topper RM

Narrow bands of light in wave division multiplexing are denoted by _____.

A. α

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B. β
C. λ
D. π

Question No:51 **(Marks:1)** **Vu-Topper RM**
Which digital multiplexing technology is use to allow several connections to share the high bandwidth of a l
A. TDM
B. FDM
C. ADM
D. WDM

Question No:52 **(Marks:1)** **Vu-Topper RM**
In optical fiber cable, the ratio of the diameter of their core to the diameter of their cladding, both expressed in _____.
A. Meters
B. Millimeters
C. Centimeters
D. Micrometers

Question No:53 **(Marks:1)** **Vu-Topper RM**
Wireless transmission can be divided into _____ broad groups.
A. One
B. Two
C. Three
D. None of these

Question No:54 **(Marks:1)** **Vu-Topper RM**
_____ is the sub type of Time Division Multiplexing Technique.
A. Light TDM
B. Barrier TDM
C. Statistical TDM

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Vu Topper RM

D. Amplitude TDM

Question No:55 **(Marks:1)** **Vu-Topper RM**
Simultaneous transmission of multiple signals across a single data link is called_____

A. Multiplexing
B. Demultiplexing
C. Modulation
D. Demodulation

Question No:56 **(Marks:1)** **Vu-Topper RM**
Cellular telephone uses _____waves for communication.

A. Radio waves
B. light wave
C. infrared waves
D. microwaves

Question No:57 **(Marks:1)** **Vu-Topper RM**
Time division multiplexing is used in _____ systems.

A. Digital **Google**
B. Analog
C. Hybrid
D. Automated

Question No:58 **(Marks:1)** **Vu-Topper RM**
A telephone line analog signal has got the bandwidth of _____.

A. 8kHz
B. 4kHz
C. 16kHz
D. 12kHz

Question No:59 **(Marks:1)** **Vu-Topper RM**
In _____, modulation process is used by the transmitting

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devices to shift their data to a specific carrier frequency for multiplexing.

A. FDM
B. ADM
C. DAM
D. SDM

Question No:60 (Marks:1) Vu-Topper RM

A fiber-optic cable transmit signals in the form of _____.

A. Light
B. Waves
C. Sound
D. None of the given

Question No:61 (Marks:1) Vu-Topper RM

If the message is going to pass through a packet-switched network, it can be divided into packets of __.

A. Fixed size
B. Variable size
C. Both fix and variable size
D. None of the these

Question No:62 (Marks:1) Vu-Topper RM

Paging System in data communication uses _____ waves.

A. Radio waves
B. light wave
C. infrared waves
D. microwaves

Question No:63 (Marks:1) Vu-Topper RM

According to stats, fewer than _____ crossbar points can be used at once.

A. 14%
B. 25%

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Vu Topper RM

C. 30%
D. 100%

Question No:64 **(Marks:1)** **Vu-Topper RM**
Virtual Circuit Identifier is the _____ of packet.
A. Length
B. Header
C. Size
D. Address

Question No:65 **(Marks:1)** **Vu-Topper RM**
In unidirectional antenna, the common point where all the lines intersect each other is ___.
A. Axis
B. Focus
C. Origin
D. Center

Question No:66 **(Marks:1)** **Vu-Topper RM**
The size of the packet is determined by the network and _____.
A. Governing Protocol
B. Instructions
C. Switching time
D. Delay

Question No:67 **(Marks:1)** **Vu-Topper RM**
In virtual circuit approach when a frame enters a switch and when it leaves the circuit then its VCI ___
A. Remain same
B. Sometimes changes

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C. Remain the same
D. Always changes

Question No:68 **(Marks:1)** **Vu-Topper RM**
In _____ TDM slots are dynamically allocated to the connected stations to improve bandwidth efficiency.
A. Statistical
B. Isochronous
C. Synchronous
D. None of the given

Question No:69 **(Marks:1)** **Vu-Topper RM**
In synchronous _____, the data flow of each input connection is divided into units, where each input occupies one input time slot.
A. FDM
B. TDM **Google**
C. WDM
D. DWDM

Question No:70 **(Marks:1)** **Vu-Topper RM**
When the bandwidth of a link is greater than the combined bandwidths of the signals, we use _____ multiplexing.
A. Frequency division
B. Time division
C. Hybrid division
D. Wavelength division

Question No:71 **(Marks:1)** **Vu-Topper RM**
Routing is a function of_____ layer.
A. Network
B. Physical

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C. Transport
D. Datalink

Question No:72 **(Marks:1)** **Vu-Topper RM**

_____ is the process of converting binary data to a digital signal.

A. QAM
B. ASK
C. FSK
D. Line coding

Question No:73 **(Marks:1)** **Vu-Topper RM**

_____ signals can take infinite levels of intensity over time.

A. Digital
B. Discrete
C. Analog
D. Logical

Question No:74 **(Marks:1)** **Vu-Topper RM**

During transmission, _____ is the effect of one wire on the other.

A. Crosstalk
B. Induced noise
C. Thermal noise
D. Thermal noise

Question No:75 **(Marks:1)** **Vu-Topper RM**

Latency is made of----------components.

A. Two
B. Five
C. Four
D. Three

Question No:76 **(Marks:1)** **Vu-Topper RM**

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If a digital signal has four levels, then we need _____ bits to represent each level.

A. 2
B. 4
C. 6
D. 8

Question No:77 **(Marks:1)** **Vu-Topper RM**

_____ is a digital process that allows connections to share the high bandwidth of a link.

A. TDM
B. FDM
C. ADM
D. WDM

Question No:78 **(Marks:1)** **Vu-Topper RM**

Transmission medium are of _____ types.

A. One
B. Two
C. Six
D. Five

Question No:79 **(Marks:1)** **Vu-Topper RM**

_____are used for multicast communications, such as radio and television.

A. Radio waves
B. light wave
C. infrared waves
D. microwaves

Question No:80 **(Marks:1)** **Vu-Topper RM**

We can have combination of _____possible codes with a 5-bit code.

A. 30

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B. 32
C. 34
D. 36

Question No:81 **(Marks:1)** **Vu-Topper RM**
When two people are talking to each other in a room then transmission medium between them is:

A. Air
B. Cable
C. Wireless medium
D. No medium required

Question No:82 **(Marks:1)** **Vu-Topper RM**
Manchester encoding scheme achieves the same level of synchronization as_____.

A. ARZ
B. RZ
C. ARZ1
D. IMP

Question No:83 **(Marks:1)** **Vu-Topper RM**
Coaxial cables are categorized by their_____ ratings.

A. Radio Government (RG)
B. Frequency modulation (FM)
C. Amplitude modulation (AM)
D. Electronic Industries Association (EIA)

Question No:84 **(Marks:1)** **Vu-Topper RM**
Microwaves are _____.

A. Bi directional
B. Unidirectional
C. Multi directional

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D. Omni directional

Question No:85 **(Marks:1)** **Vu-Topper RM**
A virtual-circuit network is a cross between a _____ network and a datagram network.

A. Circuit-switched
B. Packet switched
C. Message switched
D. Both message and packet switched network

Question No:86 **(Marks:1)** **Vu-Topper RM**
In _____ multiplexing technique, guard bands are used to avoid overlapping of frequency bands assigned to each user.

A. FDM **Google**
B. TDM
C. PDM
D. CSMA

Question No:87 **(Marks:1)** **Vu-Topper RM**
In _____ TDM, each input connection has an allotment in the output even if it is not sending data.

A. Statistical
B. Isochronous
C. Synchronous **Google**
D. Asynchronous

Question No:88 **(Marks:1)** **Vu-Topper RM**
Cable TV uses the _____category of coaxial cable.

A. RG-47
B. RG-58
C. RG-59
D. RG-11

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Question No:89 **(Marks:1)** **Vu-Topper RM**

Connection setup means using _____channels in circuit switched network.?

A. Satellite
B. Both
C. Communication
D. None of the these

Question No:90 **(Marks:1)** **Vu-Topper RM**

Modulation of analog signal is needed if the medium is _____ in nature.

A. Bi-pass
B. Low-pass
C. Bandpass
D. High-pass

Question No:91 **(Marks:1)** **Vu-Topper RM**

Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.

A. PSK, FSK
B. FSK, PSK
C. ASK, FSK.
D. ASK, PSK

Question No:92 **(Marks:1)** **Vu-Topper RM**

_____ is the scope of VCI variable in virtual circuit approach.

A. Local
B. Global
C. Both
D. None of these

Question No:93 **(Marks:1)** **Vu-Topper RM**

N=Sxr is the formula for finding _____ .?

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A. Bit rate
B. Baud rate **Google**
C. Data element
D. Signal element

Question No:94 **(Marks:1)** **Vu-Topper RM**
In _____ TDM, a round of data units from each input connection is collected into a frame.
A. Statistical
B. Non-Periodic
C. Synchronous
D. Asynchronous

Question No:95 **(Marks:1)** **Vu-Topper RM**
VCI address is _____ address in virtual circuit approach.
A. Local
B. Global
C. Private
D. Variable

Question No:96 **(Marks:1)** **Vu-Topper RM**
Virtual-Circuit Networks and datagram networks are the sub categories of _____.
A. Packet-switched networks
B. Circuit Switched Networks
C. Message switched networks
D. Both circuit and message switched networks

Question No:97 **(Marks:1)** **Vu-Topper RM**
Electromagnetic waves ranging in frequencies between 1 and 300 GHz are called_____.
A. Light wave

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B. Microwaves
C. Radio waves
D. Infrared waves

Question No:98 **(Marks:1)** **Vu-Topper RM**
_____ has less electromagnetic interference as compared to other guided medium.
A. Coaxial
B. Fiber Optic
C. Shielded Twisted Pair
D. Unshielded Twisted Pair

Question No:99 **(Marks:1)** **Vu-Topper RM**
In an analogue hierarchy to carry voice channels, a group can carry _____ voice channels.
A. 60
B. 12
C. 10
D. 20

Question No:100 **(Marks:1)** **Vu-Topper RM**
In ASK correct formula for calculating the bandwidth is as _____.
A. B=(1+d)S
B. B=(1*d)S
C. B=(d-1)S
D. B=(d-5)S

Question No:101 **(Marks:1)** **Vu-Topper RM**
Switching at the _____layer in the traditional telephone network uses the circuit-switching approach.
A. Data Layer

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B. Session Layer
C. Physical Layer **Google**
D. Network Layer

Question No:102 **(Marks:1)** **Vu-Topper RM**
In case of Frequency shift key, the difference between two frequencies is represented as_____.

A. 2 Δ
B. 4 Δ
C. 6 Δ
D. 2X5 Δ

Question No:103 **(Marks:1)** **Vu-Topper RM**
Datagram approach and virtual circuit approach are two popular approaches which lead us to _____.

A. Line switching
B. Packet switching
C. Circuit switching
D. Dynamic switching

Question No:104 **(Marks:1)** **Vu-Topper RM**
The minimum bandwidth required for QAM transmission is the same as that required for _____ and _____ transmission.

A. ASK, PSK
B. FSK, ASK
C. PSK, FSK
D. FSK, QPSK

Question No:105 **(Marks:1)** **Vu-Topper RM**
In circuit switching total Delay is combination of Connection Time, Data transfer time and _____.

A. Switching time

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B. Receiving time
C. Acknowledgement time
D. Connection tear down time

Question No:106 (Marks:1) Vu-Topper RM
RG-11 having impedance of 50 Ohm is used in _____ Ethernet.
A. Thin
B. Fast
C. Thick
D. None of these

Question No:107 (Marks:1) Vu-Topper RM
Line coding scheme is roughly divide into_____ broad categories.?
A. Five
B. One
C. Two
D. Zero

Question No:108 (Marks:1) Vu-Topper RM
Normally the value of K max in pure ALOHA is _____.
A. 15
B. 14
C. 13
D. 12

Question No:109 (Marks:1) Vu-Topper RM
YMODEM has _____ Byte of data unit.
A. 1024
B. 2410
C. 2210
D. 1042

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Question No:110 **(Marks:1)** **Vu-Topper RM**
In Block coding scheme, number of code words is always _____ data words.
Equal to

Question No:111 **(Marks:1)** **Vu-Topper RM**
Which one of the following is not a Channelization Protocol?
CSMA

Question No:112 **(Marks:1)** **Vu-Topper RM**
_____ is an Authentication Protocol, which uses two-step process to authenticate user information.
PAP

Question No:113 **(Marks:1)** **Vu-Topper RM**
The transmission medium that carries the message is referred to as the _____.
Communication channel

Question No:114 **(Marks:1)** **Vu-Topper RM**
Which error detection method uses one's complement arithmetic
Checksum

Question No:115 **(Marks:1)** **Vu-Topper RM**
Like 10 Base 5, 10 Base 2 is a _____ topology LAN.
Bus

Question No:116 **(Marks:1)** **Vu-Topper RM**
There are _____ types of serial transmission
2

Question No:117 **(Marks:1)** **Vu-Topper RM**

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_____ and _____are the two types of addressing in virtual circuit approach.

A. **Local, Global**
B. Private, Public
C. Variable, Dynamic
D. Dependent, Independent

Question No:118 **(Marks:1)** **Vu-Topper RM**

Bandwidth can be measured in _____.

bits per second bps

Question No:119 **(Marks:1)** **Vu-Topper RM**

A variation of AMI encoding is called as _____.

Polar
Uni-code
Uni-polar
Pseudoternary

Question No:120 **(Marks:1)** **Vu-Topper RM**

For a noiseless channel, theoretical formula to calculate the data rate was developed by _____.

A. Rivest
B. Nyquist Google
C. Shannon
D. Hamming

Question No:121 **(Marks:1)** **Vu-Topper RM**

In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive ant the voltage level for 1

Polar

Question No:122 **(Marks:1)** **Vu-Topper RM**

Polar encoding scheme uses _____ voltage level.

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Vu Topper RM

2
4
6
8

Question No:123 **(Marks:1)** **Vu-Topper RM**
In a bidirectional communication each layer performs two ____ tasks in each direction.
Opposite

Question No:124 **(Marks:1)** **Vu-Topper RM**
In _____ Scheme, all the signal levels are on one side of the time axis, either above or below.

A. Polar
B. Bipolar
C. Unipolar **Google**
D. Multiplexed coding

Question No:125 **(Marks:1)** **Vu-Topper RM**
Manchester and differential Manchester encoding schemes are subtypes of _____ encoding scheme.
Double

Question No:126 **(Marks:1)** **Vu-Topper RM**
In _____ transmission medium start and stop bits are used
Asynchronous

Question No:127 **(Marks:1)** **Vu-Topper RM**
In Ring topology, each node has a point to point dedicated link with.
Exactly 2 nods

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Question No:128 **(Marks:1)** **Vu-Topper RM**
Simple sine wave can be used to send -------- .
Amplitude

Question No:129 **(Marks:1)** **Vu-Topper RM**
_____ layer converts frames coming from Data Link layer into bits and sends them on the transmission medium.
A. Network
B. Physical
C. Transport
D. Application

Question No:130 **(Marks:1)** **Vu-Topper RM**
The maximum bandwidth required for QAM transmission is the same as that required for _ and _____ transmission.
ASK, PSK

Question No:131 **(Marks:1)** **Vu-Topper RM**
In _____ transmission mode(s), multiple bits are sent simultaneously.
Serial
Parallel
Sequential
In Serial and Parallel

Question No:132 **(Marks:1)** **Vu-Topper RM**
Which of following technique(s) is used for Analog-to-Digital Conversion.
Bit Modulation(BDM)
Delta Modulation (DM)
Pulse Code modulation (PCM)
Both Pulse Code and Delta Modulation

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Question No:133 **(Marks:1)** **Vu-Topper RM**

_____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

N*(N-1)

Question No:134 **(Marks:1)** **Vu-Topper RM**

In _____ encoding scheme, the voltage level oscillates between a positive and a negative value although it may remain at zero level between the two values.

A. Polar
B. Bi-Polar
C. Uni-Polar
D. Non-Polar

Question No:135 **(Marks:1)** **Vu-Topper RM**

_____ is the number of bits sent in 1 second.

A. Period
B. Bit rate **Google**
C. Latency
D. Frequency

Question No:136 **(Marks:1)** **Vu-Topper RM**

Wavelength binds the ------- of a simple sine wave to the propagation speed of the medium.

Period of the frequency **Page 61**

Question No:137 **(Marks:1)** **Vu-Topper RM**

The Full form of AMI encoding scheme is _____.

A. Alternate state inversion
B. Alternate mark inversion
C. Alternate multiple inversion
D. Alternate multilevel inversion

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Question No:138 **(Marks:1)** **Vu-Topper RM**

AMI is a popular _____ encoding method.

A. Polar
B. Bi-polar
C. Uni-polar
D. Substitution

Question No:139 **(Marks:1)** **Vu-Topper RM**

LF (Low Frequency) band is used in _____ propagation.

A. Sky
B. Ground **Goolge**
C. Single Mode
D. Line of Sight

Question No:140 **(Marks:1)** **Vu-Topper RM**

Cable TV networks use_____ cables.

Coaxial cables

Question No:141 **(Marks:1)** **Vu-Topper RM**

In circuit switching, when two end devices "A" and "B" connects with each other they send _____ request.

A. Setup
B. Inquiry
C. Switching
D. Acceptance

Question No:142 **(Marks:1)** **Vu-Topper RM**

In virtual Circuit network all packets follow _____ path.

A. Dedicated
B. Individual
C. Alternative
D. Centralized

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Question No:143 **(Marks:1)** **Vu-Topper RM**
Among the following cables given below _____ cable has the cost as compared to others
Medium

Question No:144 **(Marks:1)** **Vu-Topper RM**
Among the following cables given below _____ cable has the lowest cast as compared to others.
Coaxial cable

Question No:145 **(Marks:1)** **Vu-Topper RM**
Among the following cables given below, _____cable provides highest bandwidth and less attenuation.

A. UTP
B. STP
C. Coaxial cable
D. Fiber optic cable

Question No:146 **(Marks:1)** **Vu-Topper RM**
Header size _____while moving down the layers at sending side.

A. Increases
B. Decreases
C. Remain same
D. Headers and layers are unrelated

Question No:147 **(Marks:1)** **Vu-Topper RM**
Set of rules to be followed for effective network communication is called _____.
Protocol
Topology
Switching

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Vu Topper RM

Encryption

Question No:148 **(Marks:1)** **Vu-Topper RM**

Datagram (packet) travels across _____ in a network.

A. Hub
B. Modem
C. Routers
D. Switching

Question No:149 **(Marks:1)** **Vu-Topper RM**

The bandwidth-delay product defines the number of bits that can fill the_____.

Link

Question No:150 **(Marks:1)** **Vu-Topper RM**

In Pulse Code Modulation (PCM), the sampling is dependent on _____.

Time
Frequency
Amplitude
Signal Rate

Question No:151 **(Marks:1)** **Vu-Topper RM**

Composite wave can be used to send _____.

Frequency

Question No:152 **(Marks:1)** **Vu-Topper RM**

_____ is normally used for long-distance data transfer.

Both parallel and Serial data transmission

Question No:153 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

The conversion of _____ sample of the signal into _____ form is called quantizing process

Sampling and quantizing

Question No:154 (Marks:1) Vu-Topper RM

When data is sent or received using _____, the data bits are organized in a specific order, since they can only be sent or received one after another.

A. Parallel data transmission
B. Hybrid data transmission
C. Serial data transmission
D. Both parallel and serial transmission

Question No:155 (Marks:1) Vu-Topper RM

Multipoint channel can be shared in _____ manner.

Both temporal and spartial.

Question No:156 (Marks:1) Vu-Topper RM

Communication between two users in a Cellular (Mobile) network is an example of _____ communication.

Simplex
Complex
Half duplex
Full duplex

Question No:157 (Marks:1) Vu-Topper RM

_____ is normally used where speed is priority in data transfer.

Hybrid transmission

Question No:158 (Marks:1) Vu-Topper RM

Wiring used for transmission modes depends upon _____.

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Vu Topper RM

A. Latency
B. Data Stream
C. Data Sniffing
D. Packet Tracing

Question No:159 **(Marks:1)** **Vu-Topper RM**
If a digital signal has "L" number of levels, _____ is the number of bits required to represent each level.
Log base 2L

Question No:160 **(Marks:1)** **Vu-Topper RM**
In scrambling coding scheme, the number of pulses replacing the bits will be _____
Equal to pulses

Question No:161 **(Marks:1)** **Vu-Topper RM**
_____ is a type of serial transmission in which data bits are transmitted as a continuous stream in time with a master clock. start bits, stop bits, and gaps are not used. Transmitter and receiver time is sync.
A. Isochronous
B. Synchronous **Google**
C. Asynchronous
D. Metasochronous

Question No:162 **(Marks:1)** **Vu-Topper RM**
TCP/IP was presented by_____ in a research paper.
A. Vin Cerf and bob Kahn
B. Vint Cerf and David Lazer
C. Bob Kahn and Kathleen Carley
D. Duncan Watts and Peter Bearman

Question No:163 **(Marks:1)** **Vu-Topper RM**
HDB3 falls under which coding scheme?

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Vu Topper RM

Bipolar

Question No:164 **(Marks:1)** **Vu-Topper RM**

A frequency is called ------, if the rate of change in sine wave is instantaneous.

A. Bandwidth
B. Zero frequency
C. Frequency hertz
D. Infinite frequency

Question No:165 **(Marks:1)** **Vu-Topper RM**

The bipolar encoding scheme was developed as an alternative of _____.

NRZ

Question No:166 **(Marks:1)** **Vu-Topper RM**

In _____ TCP/IP was declared as the official protocol of internet.

1983
1980
1973
1988

Question No:167 **(Marks:1)** **Vu-Topper RM**

If 32 bits are sent in two seconds then bitrate for that signal is _____.

A. 8 Hz
B. 16 bps
C. 32 bps
D. 64bps

Question No:168 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

In _____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous

Question No:169 **(Marks:1)** **Vu-Topper RM**
Some manufacturers provide a special port called the _____ port that allows a wireless keyboard to communicate with a PC.
A. USB
B. IRDA
C. Parallel
D. Consol

Question No:170 **(Marks:1)** **Vu-Topper RM**
There are _____ components of data communication system.
5

Question No:171 **(Marks:1)** **Vu-Topper RM**
Which one of following is a scrambling coding technique?
A. BZ8S
B. B8ZS **Google**
C. B8SZ
D. BOSZ

Question No:172 **(Marks:1)** **Vu-Topper RM**
In NRZ-I the signal is inverted if _____ is encountered.
A. 0
B. 1
C. 00
D. 11

Question No:173 **(Marks:1)** **Vu-Topper RM**
_____ layer is responsible for creating datagrams.
Network

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Vu Topper RM

Question No:174 **(Marks:1)** **Vu-Topper RM**

_____ is the Nyquist bit rate formula for noiseless channel.

BitRate =2*Bandwidth* L

BitRate =2*Bandwidth*log2

BitRate =3*Bandwidth*log2 L

BitRate=2*Bandwidth*log2 L

Question No:175 **(Marks:1)** **Vu-Topper RM**

Signals travel through fiber optic cable are in the form of _____.

Light

Question No:176 **(Marks:1)** **Vu-Topper RM**

When data is sent using _____ , multiple data bits are transmitted over multiple channels at the same time.

A. Serial data transmission
B. Hybrid data transmission
C. Parallel data transmission
D. Both parallel and serial transmission

Question No:177 **(Marks:1)** **Vu-Topper RM**

In Binary ASK, the peak amplitude of one signal level is 0 and the other is the same as the _____ of the carrier.

Amplitude

Question No:178 **(Marks:1)** **Vu-Topper RM**

_____category of coaxial cable is used for thin Ethernet.

A. RG-11
B. RG-58
C. RG-47
D. RG-59

Question No:179 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

Time taken by a periodic signal to complete one cycle is called ____.

Period

Question No:180 (Marks:1) Vu-Topper RM

QAM stands for _____ .

A. Quarter Altitude Modulator
B. Quadrature Amplitude Modifier
C. Quadrature Amplifier Modulation
D. Quadrature Amplitude Modulation

Question No:181 (Marks:1) Vu-Topper RM

According to Nyquist theorem, the sampling rate must be at least _____ times the highest frequency contained in the signal.

A. 2 **Google**
B. 4
C. 6
D. 8

Question No:182 (Marks:1) Vu-Topper RM

_____ is an example of transmitter.

Hub
Server
Modem
Work station

Question No:183 (Marks:1) Vu-Topper RM

_____ is composed of thousands of interconnected networks expanded over large geographical area.

A. The Internet
B. Home Network
C. Local area network WAN
D. Metropolitan Area Network

Question No:184 (Marks:1) Vu-Topper RM

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Vu Topper RM

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In frequency domain plot, which value is plot on Y-axis?
Time
Amplitude
Frequency
Wavelength

Question No:185 **(Marks:1)** **Vu-Topper RM**
_____ signal completes a certain pattern in a specific amount of time.
Periodic

Question No:186 **(Marks:1)** **Vu-Topper RM**
The baud rate is _____ to the bit rate.
Measure

Question No:187 **(Marks:1)** **Vu-Topper RM**
The material used for conduction in twisted pair cable is _____.
A. Gold
B. Silver
C. Copper
D. Aluminum

Question No:188 **(Marks:1)** **Vu-Topper RM**
In _____ topology, each computer/station is attached to other through a central device.
Star topology

Question No:189 **(Marks:1)** **Vu-Topper RM**
In frequency modulation, the frequency of the oscillator changes according to the _____.
Input Voltage

Question No:190 **(Marks:1)** **Vu-Topper RM**
_____ is the heart of block coding.

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Substitution **Google**

Question No:191 **(Marks:1)** **Vu-Topper RM**
In transmission impairments _____noise occurs from other sources like motors and appliances etc.
Impulse
Thermal
Induced
Cross talk

Question No:192 **(Marks:1)** **Vu-Topper RM**
Demultiplexer is a_____ device.
One to many

Question No:193 **(Marks:1)** **Vu-Topper RM**
Low pass channel with _____ bandwidth is not real and is used for theoretical modeling
Narrow

Question No:194 **(Marks:1)** **Vu-Topper RM**
_____ is NOT an example of connecting device.
TCP

Question No:195 **(Marks:1)** **Vu-Topper RM**
Parabolic antenna is used for_____ communication.
Microwave

Question No:196 **(Marks:1)** **Vu-Topper RM**
Token Ring was devised by _____.
A. OSI
B. IBM **Google**
C. DELL

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Vu Topper RM

D. NASA

Question No:197 (Marks:1) Vu-Topper RM
Induced noise Cable TV networks use_____ cables.
Coaxial

Question No:198 (Marks:1) Vu-Topper RM
Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.

A. Light wave
B. Radio waves **Google**
C. Microwaves
D. Infrared waves

Question No:199 (Marks:1) Vu-Topper RM
Most commonly used connector for twisted pair cable is _____.

A. RJ-11
B. RJ-45
C. RJ-44
D. RJ-52

Question No:200 (Marks:1) Vu-Topper RM
Binary Amplitude Shift Keying is also called as:
On-Off Keying

Question No:201 (Marks:1) Vu-Topper RM
_____ is a multiplexing technique which shifts each signal to a different carrier frequency.
FDM

Question No:202 (Marks:1) Vu-Topper RM
in NRZ-1 the signal is inverted if ————- is encountered.
1

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Vu Topper RM

Question No:203 **(Marks:1)** **Vu-Topper RM**

————————- Protocol suite is being used by the modern internet communication.

TCP/IP

Question No:204 **(Marks:1)** **Vu-Topper RM**

In ———— signal changes its shape or form.

Distortion

Question No:205 **(Marks:1)** **Vu-Topper RM**

At the application layer, object/information is in the form of _____.

Segment

Question No:206 **(Marks:1)** **Vu-Topper RM**

the first step in PCM technique.

A. Encoding
B. Sampling
C. Quantizing
D. Substitution

Question No:207 **(Marks:1)** **Vu-Topper RM**

A frequency is called ____ if sine wave does not change with time

Zero frequency

Question No:208 **(Marks:1)** **Vu-Topper RM**

Open system interconnection (OSI) has __ number of layers

7

Question No:209 **(Marks:1)** **Vu-Topper RM**

N= S*r is the formula for finding

Baud rate

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Vu Topper RM

Question No:210 **(Marks:1)** **Vu-Topper RM**
In context of bandwidth-delay product, the cross section of the pipe represents the _____.
Bandwidth

Question No:211 **(Marks:1)** **Vu-Topper RM**
OSI stands for _____.
Open System Interface
Open Source Interconnection
Open system interconnection
Open Standard Interconnection

Question No:212 **(Marks:1)** **Vu-Topper RM**
Writing used for transmission modes depends upon _____.
Data stream

Question No:213 **(Marks:1)** **Vu-Topper RM**
Minimum bandwidth required for Manchester line coding scheme is_____.
A. 1Mhz **Google**
B. 2Mhz
C. 1Ghz
D. 3Ghz

Question No:214 **(Marks:1)** **Vu-Topper RM**
Packets travel in ____ layer of TCP/IP protocol suit
Network

Question No:215 **(Marks:1)** **Vu-Topper RM**
_____ protocol suit is being used by the modern internet communication
TCP/IP

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Vu Topper RM

Question No:216 **(Marks:1)** **Vu-Topper RM**
Frames travel in _____ layer of TCP/IP Protocol suite.
Network
Data link
Application
Presentation

Question No:217 **(Marks:1)** **Vu-Topper RM**
There are __ common scrambling technique
Two

Question No:218 **(Marks:1)** **Vu-Topper RM**
FSK stands for _____.
A. Fake Shift Keying
B. Foreign shift keying
C. Frequency Swift king
D. Frequency shift keying

Question No:219 **(Marks:1)** **Vu-Topper RM**
Switch is a _____ layer device.
Network
Transport
Data link
Application

Question No:220 **(Marks:1)** **Vu-Topper RM**
In PCM technique Quantization is an _____ process
Un-balanced

Question No:221 **(Marks:1)** **Vu-Topper RM**
The layer of TCP/IP protocol suite which is on the top is known as _____ layer.

Vu Topper RM

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Application

Question No:222 (Marks:1) Vu-Topper RM
Manchester encoding scheme uses and inversion at the _____ of each bit
Middle

Question No:223 (Marks:1) Vu-Topper RM
High-Level Data Link Control(HDLC) defines ____ types of frames to deal with the transfer modes.
3

Question No:224 (Marks:1) Vu-Topper RM
_____ are used to transport user data and control information relating to user data
Information frams

Question No:225 (Marks:1) Vu-Topper RM
_____ are used to exchange session management and control information between connected devices.
U-frames

Question No:226 (Marks:1) Vu-Topper RM
The _____ is the number of signal elements sent per unit time.
Bit rate

Question No:227 (Marks:1) Vu-Topper RM
Error correction is more _____ than the error detection
Difficult

Question No:228 (Marks:1) Vu-Topper RM
One of the most common protocols for point-to-point access is _____.
PPP

Vu Topper RM

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Question No:229 **(Marks:1)** **Vu-Topper RM**
Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching
Ture
False

Question No:230 **(Marks:1)** **Vu-Topper RM**
Which one is not the function of data link layer?
Line discipline

Question No:231 **(Marks:1)** **Vu-Topper RM**
Is not a function of Data Link Control.
Modulation

Question No:232 **(Marks:1)** **Vu-Topper RM**
The _____ protocol uses both flow and error control.
Stop-and-Wait

Question No:233 **(Marks:1)** **Vu-Topper RM**
The _____ technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.
DSSS

Question No:234 **(Marks:1)** **Vu-Topper RM**
Digital signals are refered to be _____.
Discrete

Question No:235 **(Marks:1)** **Vu-Topper RM**
The original Ethernet technology with the data rate of 10 Mbps is called _____?
Standard Ethernet

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Vu Topper RM

Question No:236 **(Marks:1)** **Vu-Topper RM**
The extra bits added with the original data for error detection/correction are called _____.
Redundant bits

Question No:237 **(Marks:1)** **Vu-Topper RM**
In _____, each station sends a frame whenever it has a frame to send.
Slotted ALOHA

Question No:238 **(Marks:1)** **Vu-Topper RM**
In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____
Packetizing

Question No:239 **(Marks:1)** **Vu-Topper RM**
What is the period of a Sine wave having frequency of 5 Hz?
0.2

Question No:240 **(Marks:1)** **Vu-Topper RM**
In Pure ALOHA, the vulnerable time is _____ the frame transmission time.
Two times

Question No:241 **(Marks:1)** **Vu-Topper RM**
Analog refers to something that is continuous in _____.
Time

Question No:242 **(Marks:1)** **Vu-Topper RM**
_____ encoding is almost obsolete today
Unipolar

Question No:243 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

Which of the following is most affected by noise?
ASK

Question No:244 **(Marks:1)** **Vu-Topper RM**
_____is sometimes called the bit rate.

A. pulse rate
B. **Data rate**
C. signal rate
D. modulation rate

Question No:245 **(Marks:1)** **Vu-Topper RM**
_____ contains a repeater.
Active hub

Question No:246 **(Marks:1)** **Vu-Topper RM**
Asynchronous transmission is _____.
Slow

Question No:247 **(Marks:1)** **Vu-Topper RM**
In ASK, both _____ and _____ remain constant.
Frequency, Phase

Question No:248 **(Marks:1)** **Vu-Topper RM**
DLC in Data Link Layer stands for _____.
Data Link Control

Question No:249 **(Marks:1)** **Vu-Topper RM**
In _____, each station is allocated a time slot during which it can send data.
TDMA

Question No:250 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

Large

Question No:251 (Marks:1) Vu-Topper RM

Human voice is example of _____ signal

Analog

Question No:252 (Marks:1) Vu-Topper RM

The human voice normally contains frequency range from _____.

A. 0 to 6000 Hz
B. 0 to 5000 Hz
C. 0 to 3000 Hz
D. 0 to 4000 Hz Google

Question No:253 (Marks:1) Vu-Topper RM

According to the Fourier analysis, frequencies obtained after decomposition of non periodic digital signals are _____.

A. Bit length
B. Automatic
C. Continuous
D. Heterogeneous

Question No:254 (Marks:1) Vu-Topper RM

The addresses of transport layer are in the form of _____.

A. Name
B. Port numbers Google
C. Logical addresses
D. Link-layer addresses

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Vu Topper RM

Question No:255 **(Marks:1)** **Vu-Topper RM**

_____ is the example of multipoint topology.

A. Bus **Google**

B. Star

C. Hub

D. Mesh

Question No:256 **(Marks:1)** **Vu-Topper RM**

_____ component of data communication governs the overall communication on the network.

A. Sender

B. Receiver

C. Protocol

D. Transmission Medium

Question No:257 **(Marks:1)** **Vu-Topper RM**

In _____ transmission mode, start and stop bits are used.

A. Sequential

B. Isochronous

C. Synchronous

D. Asynchronous **Google**

Question No:258 **(Marks:1)** **Vu-Topper RM**

_____ is an Application layer protocol, that is used for accessing the internet.

A. UDP

B. TCP

C. MAC

D. HTTP **Google**

Question No:259 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

Suppose a signal is attenuated then the value of decibel will be _____.

A. 0
B. 1
C. Negative **New handout**
D. Positive

Question No:260 **(Marks:1)** **Vu-Topper RM**

_____ encoding scheme is somewhat a combination of the RZ and NRZ-I schemes.

A. AMI
B. Manchester **Google**
C. Differential Manchester
D. Manchester and differential Manchester

Question No:261 **(Marks:1)** **Vu-Topper RM**

The logical connection between the peer layers is _____ connection.

A. Direct **Google**
B. Indirect
C. Physical
D. Tangible

Question No:262 **(Marks:1)** **Vu-Topper RM**

To improve the performance of line coding _____coding was introduced.

A. 2BIQ
B. MLT-3
C. Block coding **Google**
D. Double coding

Vu Topper RM

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Question No:263 **(Marks:1)** **Vu-Topper RM**

Block coding can help in _____at the receiver side.

A. Distortion

B. Error detection **New Handout**

C. Synchronization

D. Synchronization and error detection

Question No:264 **(Marks:1)** **Vu-Topper RM**

In TCP / IP model, the Physical Layer exchanges data in the form of _____.

A. Bits **Google**

B. Frames

C. Packets

D. Segments

Question No:265 **(Marks:1)** **Vu-Topper RM**

DC component issue is solved in _____ coding scheme.

A. Line

B. Vector

C. Bipolar **New handout**

D. Biphase

Question No:266 **(Marks:1)** **Vu-Topper RM**

_____ signals have limited number of discrete values.

A. Digital **Google**

B. Logical

C. Analogue

D. Continuous

Question No:267 **(Marks:1)** **Vu-Topper RM**

In optical fiber a glass or plastic core is surrounded by a _____.

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Vu Topper RM

A. Insulator
B. Cladding **Google**
C. Inner Conductor shield
D. Outer conductor shield

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For More Important Notes
Channel Name = #VuTopperRM

Vu Topper

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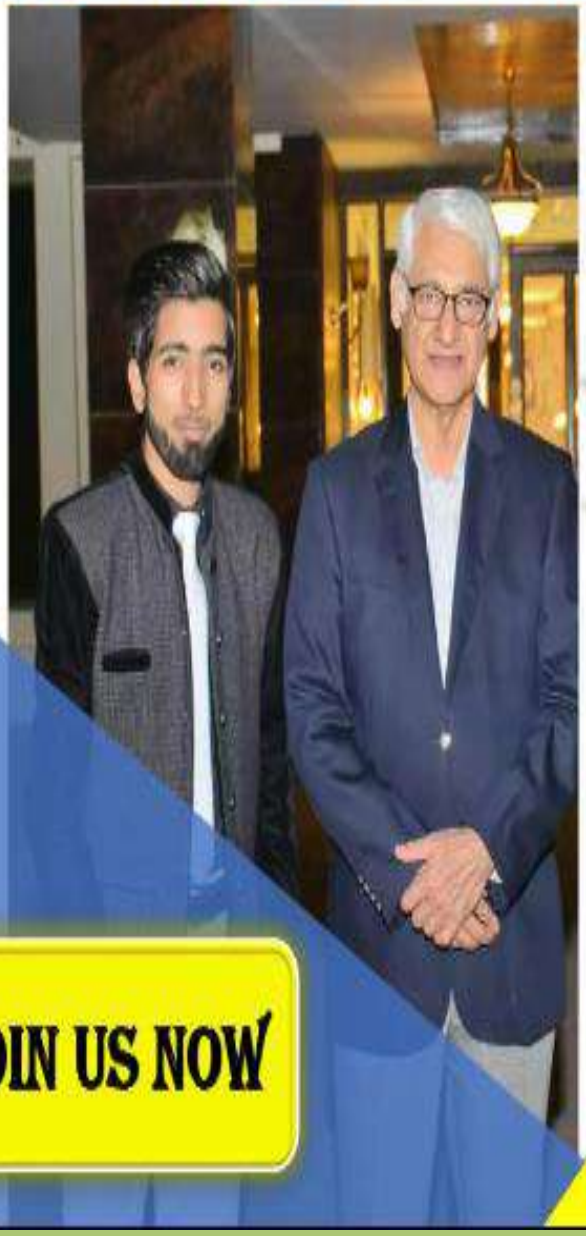
CS-601 Data Communication Update MCQS For Quiz-2 File. Solve By Vu Topper RM

80 To 100% Marks

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Question No:1 **(Marks:1)** **Vu-Topper RM**
TCP/IP was presented by_____ in a research paper.
Vin Cerf and bob Kahn

Question No:2 **(Marks:1)** **Vu-Topper RM**
HDB3 falls under which coding scheme?
Bipolar

Question No:3 **(Marks:1)** **Vu-Topper RM**
Line coding scheme is roughly divide into_____ broad categories.? **Five**

Question No:4 **(Marks:1)** **Vu-Topper RM**
A frequency is called _____, if the rate of change in sine wave Is Instantaneous.
Infinite frequency

Question No:5 **(Marks:1)** **Vu-Topper RM**
The bipolar encoding scheme was developed as an alternative of _____.
NRZ

Question No:6 **(Marks:1)** **Vu-Topper RM**
In _____ TCP/IP was declared as the official protocol of internet. **1983**

Question No:7 **(Marks:1)** **Vu-Topper RM**
If 32 bits are sent in two seconds then bitrate for that signal is _____.
16 bps

Question No:8 **(Marks:1)** **Vu-Topper RM**
Relatively measures the strength of two signals.
Decibel

Question No:9 **(Marks:1)** **Vu-Topper RM**
In _____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous

Vu Topper RM

Question No:10 **(Marks:1)** **Vu-Topper RM**
PSK is _____ susceptible to noise as compared to ASK.
False

For More Help Vu-Topper RM Contact What's app 03224021365

Question No:11
There are _____ components of data communication system. **5**

Question No:12 **(Marks:1)** **Vu-Topper RM**
Which one of following is a scrambling coding technique?
B8ZS

Question No:13 **(Marks:1)** **Vu-Topper RM**
In NRZ-I the signal is inverted if _____ is encountered. **1**

Question No:14 **(Marks:1)** **Vu-Topper RM**
If a digital transmission system is sending five bits in every half a second, the bitrate of the system will be _____.
5 bps

Question No:15 **(Marks:1)** **Vu-Topper RM**
_____ layer is responsible for creating datagrams.
Network

Question No:16 **(Marks:1)** **Vu-Topper RM**
_____ is the Nyquist bit rate formula for noiseless channel.
BitRate=2*Bandwidth*log2 L

Question No:17 **(Marks:1)** **Vu-Topper RM**
Signals travel through fiber optic cable are in the form of _____. **Light**

Question No:18 **(Marks:1)** **Vu-Topper RM**
When data is sent using _____ , multiple data bits are transmitted over multiple channels at the same time.
parallel transmission

Vu Topper RM

Question No:19 **(Marks:1)** **Vu-Topper RM**
In Binary ASK, the peak amplitude of one signal level is 0 and the other is the same as the _____ of the carrier.
Amplitude

Question No:20 **(Marks:1)** **Vu-Topper RM**
_____category of coaxial cable is used for thick Ethernet.
RG-58

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Question No:21 **(Marks:1)** **Vu-Topper RM**
Time taken by a periodic signal to complete one cycle is called _____.
period.

Question No:22 **(Marks:1)** **Vu-Topper RM**
The most common type of connector used by coaxial cable is _____.
BNC
RJ-11
RJ-57
RJ-45

Question No:23 **(Marks:1)** **Vu-Topper RM**
Quadrature Amplitude Modulation is the mechanism of _____ conversion.
Digital to analog
Analog to Analog
Analog to digital
Digital to digital

Question No:24 **(Marks:1)** **Vu-Topper RM**
QAM stands for _____ .
Quadrature Amplitude Modulation

Question No:24 **(Marks:1)** **Vu-Topper RM**
According to Nyquist theorem, the sampling rate must be at least _____ times the highest frequency contained in the signal.
Twice

Vu Topper RM

Question No:25 **(Marks:1)** **Vu-Topper RM**

_____ is an example of transmitter.

Modem

Question No:27 **(Marks:1)** **Vu-Topper RM**

_____have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

Microwaves

Radio waves

Simple waves

Infrared waves

Question No:28 **(Marks:1)** **Vu-Topper RM**

WDM stands for _____.

Worst Data Manipulation

Wideband De-Modulation

Wideband Division Multiplexing

Wavelength Division Multiplexing

Voltage controlled oscillator(VCO) generates _____ .

Carrier Signals

Periodic signals **Google**

Signal elements

Composite Signals

A virtual-circuit network operates on _____ layer.

Network **Google**

Physical

Datalink

Application

Vu Topper RM

Question No: 29 **(Marks:1)** **Vu-Topper RM**

_____ is composed of thousands of interconnected networks expanded over large geographical area.

Local area network WAN

Question No:30 **(Marks:1)** **Vu-Topper RM**

In frequency domain plot, which value is plot on Y-axis?

Amplitude

Question No:31 **(Marks:1)** **Vu-Topper RM**

_____ signal completes a certain pattern in a specific amount of time.

Periodic

Question No:32 **(Marks:1)** **Vu-Topper RM**

The baud rate is _____ to the bit rate.

Measure

Question No:33 **(Marks:1)** **Vu-Topper RM**

In frequency domain plot, which value is replaced with frequency?

Wavelength

Question No:34 **(Marks:1)** **Vu-Topper RM**

The material used for conduction in twisted pair cable is _____.

Copper

Question No:35 **(Marks:1)** **Vu-Topper RM**

To calculate the data rate for noisy channel _____ formula is used.

Shannon

Question No:36 **(Marks:1)** **Vu-Topper RM**

Radio waves are propagated in_____ whenever they are transmitted by an antenna.

All direction

Left direction

Right direction

Only up and down direction

Vu Topper RM

Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Question No:37 **(Marks:1)** **Vu-Topper RM**

In _____ topology, each computer/station is attached to other through a central device.

Star topology

Question No:38 **(Marks:1)** **Vu-Topper RM**

In frequency modulation, the frequency of the oscillator changes according to the _____.

Input Voltage

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39

According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

Discrete

Question No:40 **(Marks:1)** **Vu-Topper RM**

_____ is the heart of block coding.

Substitution **Google**

Question No:41 **(Marks:1)** **Vu-Topper RM**

Wireless transmission can be divided into_____ broad groups.

Three

Question No:42 **(Marks:1)** **Vu-Topper RM**

In transmission impairments _____ noise occurs from other sourcelike

Induced

Question No:43 **(Marks:1)** **Vu-Topper RM**

_____ is a digital process that allows connections to share the high bandwidth of a link.

TDM

Question No:44 **(Marks:1)** **Vu-Topper RM**

Demultiplexer is a_____ device.

Vu Topper RM

Question No: **(Marks:1)** **Vu-Topper RM**
One to many

Question No:45 **(Marks:1)** **Vu-Topper RM**
In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of
64 kbps
32 kbps
128 kbps
1.544 Mbps

Question No:46 **(Marks:1)** **Vu-Topper RM**
Routing is a function of_____ layer.
Network

Question No:47 **(Marks:1)** **Vu-Topper RM**
Low pass channel with _____ bandwidth is not real and is used for theoretical modeling
Narrow

Question No:48 **(Marks:1)** **Vu-Topper RM**
Unit of phase is_____.
Degree

A switched network consists of a series of interlinked _____ called switches.
Root
Nodes **Google**
Points
System

Question No:50 **(Marks:1)**
_____ is NOT an example of connecting device.
TCP

Vu Topper RM

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Question No:51 **(Marks:1)** **Vu-Topper RM**

Parabolic antenna is used for_____ communication.

Microwave

Question No:52 **(Marks:1)** **Vu-Topper RM**

Token Ring was devised by_____.

IBM

Question No:53 **(Marks:1)** **Vu-Topper RM**

Induced noiseCable TV networks use_____ cables.

Coaxial

Question No:54 **(Marks:1)** **Vu-Topper RM**

_____ signal is represented by the discrete values.

Digital

Question No:55 **(Marks:1)** **Vu-Topper RM**

Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.

Radio waves

Question No:56 **(Marks:1)** **Vu-Topper RM**

Most commonly used connector for twisted pair cable is _____.

RJ-45

Question No:57 **(Marks:1)** **Vu-Topper RM**

Binary Amplitude Shift Keying is also called as:

On-Off Keying

Question No:58 **(Marks:1)** **Vu-Topper RM**

_____ is a multiplexing technique which shifts each signal to a different carrier frequency.

FDM

Vu Topper RM

Question No: **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

59

Entire band in United States is regulated by_____ authorities.

ITU

FCC

ANSI

NASA

Question No:60 **(Marks:1)**

in NRZ-1 the signal is inverted if ————- is encountered.

1

Question No:61 **(Marks:1)** **Vu-Topper RM**

————- Protocol suite is being used by the modern internet communication.

TCP/IP

Question No:62 **(Marks:1)** **Vu-Topper RM**

In ——— signal changes its shape or form.

Distortion

Question No:63 **(Marks:1)** **Vu-Topper RM**

At the application layer, object/information is in the form of _____.

Segment

Question No:64 **(Marks:1)** **Vu-Topper RM**

_____ is the first step in PCM technique

Sampling

Question No:65 **(Marks:1)** **Vu-Topper RM**

A frequency is called ____ if sine wave does not change with time

Zero frequency

Vu Topper RM

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Question No:66 **(Marks:1)** **Vu-Topper RM**

Open system interconnection (OSI) has __ number of layers **7**

Question No:67 **(Marks:1)** **Vu-Topper RM**

N= S*r is the formula for finding

Baud rate

Question No:68 **(Marks:1)** **Vu-Topper RM**

Unit of phase is _____.

Watts

Bauds

Degree

Bits per second

Question No:69 **(Marks:1)** **Vu-Topper RM**

In context of bandwidth-delay product, the cross section of the pipe represents the _____.

Bandwidth

70

OSI stands for _____.

Open system interconnection

Question No:71 **(Marks:1)**

Writing used for transmission modes depends upon _____.

Data stream

Question No:72 **(Marks:1)** **Vu-Topper RM**

Minimum bandwidth required for Manchester line coding scheme is _____.

1Mhz

Question No:73 **(Marks:1)** **Vu-Topper RM**

A twisted pair cable consists of _____ conductors

Vu Topper RM

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Two
Five
Four
Three

Question No:74 **(Marks:1)** **Vu-Topper RM**
Packets travel in ____ layer of TCP/IP protocol suit
Network

Question No:75 **(Marks:1)** **Vu-Topper RM**
_____ protocol suit is being used by the modern internet communication
TCP/IP

Question No:76 **(Marks:1)** **Vu-Topper RM**
Frames travel in _____ layer of TCP/IP Protocol suite.
Data link

Question No:77 **(Marks:1)** **Vu-Topper RM**
There are __ common scrambling technique
Two

Question No:78 **(Marks:1)** **Vu-Topper RM**
FSK stands for _____.
Frequency shift keying

Question No:79 **(Marks:1)** **Vu-Topper RM**
RG-11 having impedance of 50 ohm is used in _____ Ethernet
Thin
Fast
Thick
None of these

Vu Topper RM

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Question No:80 **(Marks:1)** **Vu-Topper RM**
Switch is a _____ layer devices
Data link

81
In PCM technique Quantization is an _____ process
Un-balanced

Question No:82 **(Marks:1)**
The layer of TCP/IP protocol suite which is on the top is known as _____ layer.
Application

Question No:83 **(Marks:1)** **Vu-Topper RM**
Manchester encoding scheme uses and inversion at the _____ of each bit
Middle

Question No:84 **(Marks:1)** **Vu-Topper RM**
High-Level Data Link Control(HDLC) defines ____ types of frames to deal with the transfer modes.
3

Question No:85 **(Marks:1)** **Vu-Topper RM**
_____ are used to transport user data and control information relating to user data
Information frams

Question No:86 **(Marks:1)** **Vu-Topper RM**
_____ are used to exchange session management and control information between connected devices.
U-frames

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Question No:87 **(Marks:1)** **Vu-Topper RM**

The _____ is the number of signal elements sent per unit time.

Bit rate

Question No:88 **(Marks:1)** **Vu-Topper RM**

Error correction is more _____ than the error detection

Difficult

Question No:89 **(Marks:1)** **Vu-Topper RM**

One of the most common protocols for point-to-point access is _____.

PPP

Question No:90 **(Marks:1)** **Vu-Topper RM**

Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching **False**

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Question No: **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

91

Which one is not the function of data link layer?

Line discipline

Question No:92 **(Marks:1)** _____

is not a function of Data Link Control.

Modulation

Question No:93 **(Marks:1)** **Vu-Topper RM**

The _____ protocol uses both flow and error control.

Stop-and-Wait

Question No:94 **(Marks:1)** **Vu-Topper RM**

The _____ technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.

DSSS

Question No:95 **(Marks:1)** **Vu-Topper RM**

In circuit switched networks we have low efficiency but minimal _____.

Delay

Error

Speed

Throughput

Question No:96 **(Marks:1)** **Vu-Topper RM**

Digital signals are refered to be _____.

Discrete

Question No:97 **(Marks:1)** **Vu-Topper RM**

The original Ethernet technology with the data rate of 10 Mbps is called _____?

Standard Ethernet

VuTopperRM

Question No:1 **(Marks:1)** **Vu-Topper RM**

Question No:98 **(Marks:1)** **Vu-Topper RM**
The extra bits added with the original data for error detection/correction are called _____.
Redundant bits

Question No:99 **(Marks:1)** **Vu-Topper RM**
In _____, each station sends a frame whenever it has a frame to send.
Slotted ALOHA

Question No:100 **(Marks:1)** **Vu-Topper RM**
In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____
Packetizing

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01
What is the period of a Sine wave having frequency of 5 Hz?
0.2

Question No:102 **(Marks:1)**
In Pure ALOHA, the vulnerable time is _____ the frame transmission time.
Two times

Question No:103 **(Marks:1)** **Vu-Topper RM**
Analog refers to something that is continuous in _____.
Time

Question No:104 **(Marks:1)** **Vu-Topper RM**
_____ encoding is almost obsolete today
Unipolar

Question No:105 **(Marks:1)** **Vu-Topper RM**
Which of the following is most affected by noise?
ASK

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Question No:1 **(Marks:1)** **Vu-Topper RM**

Vu-Topper RM

Question No:106 **(Marks:1)** **Vu-Topper RM**
_____ is sometimes called the bit rate.
Data rate

Question No:107 **(Marks:1)** **Vu-Topper RM**
_____ contains a repeater.
Active hub

Question No:108 **(Marks:1)** **Vu-Topper RM**
Asynchronous transmission is _____.
Slow

Question No:109 **(Marks:1)** **Vu-Topper RM**
In ASK, both _____ and _____ remain constant.
Frequency, Phase

Question No:110 **(Marks:1)** **Vu-Topper RM**
We can have _____ different groups with a 4 bit block. **8**

Question No:111 **(Marks:1)** **Vu-Topper RM**
DLC in Data Link Layer stands for _____.
Data Link Control

12
In _____, each station is allocated a time slot during which it can send data.
TDMA

Question No:113 **(Marks:1)** **Vu-Topper RM**
Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.
Large

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Question No:1 **(Marks:1)** **Vu-Topper RM**

Question No:114 **(Marks:1)** **Vu-Topper RM**
Human voice is example of _____ signal
Analog

Question No:115 **(Marks:1)** **Vu-Topper RM**
Normally the value of Kmax in pure ALOHA is _____.
15

Question No:116 **(Marks:1)** **Vu-Topper RM**
YMODEM has _____ Byte of data unit.
1024

Question No:117 **(Marks:1)** **Vu-Topper RM**
In Block coding scheme, number of code words is always _____ data words.
Equal to

Question No:118 **(Marks:1)** **Vu-Topper RM**
Which one of the following is not a Channelization Protocol?
CSMA

Question No:120 **(Marks:1)** **Vu-Topper RM**
_____ is an Authentication Protocol, which uses two-step process to authenticate user information.
PAP

Question No:121 **(Marks:1)** **Vu-Topper RM**
The transmission medium that carries the message is referred to as the _____.
Communication channel

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Vu Topper RM

22

Which error detection method uses one's complement arithmetic
Checksum

Question No:123 **(Marks:1)** **Vu-Topper RM**
Like 10 Base 5, 10 Base 2 is a _____ topology LAN.
Bus

Question No:124 **(Marks:1)** **Vu-Topper RM**
There are _____ types of serial transmission
2

Question No:125 **(Marks:1)** **Vu-Topper RM**
_____ and _____ are the two types of addressing in virtual circuit approach.
Local, Global

Question No:126 **(Marks:1)** **Vu-Topper RM**
_____ relatively measures the strength of two signals. **Decibel**

Top most organization that provides support for the Internet Standard process is called_____.

Internet Society (ISOC)
Internet Architecture Board (IAB)
IETF
IRTF

In pulse code modulation the term sampling can also be referred as_____.

Pulse Amplitude Modulation
Pulse sample Modulation
Pulse line modulation
Pulse Frequency Modulation

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In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

Thermal noise
Impulse noise
Cross talk
Induced noise

Bandwidth can be measured in _____.
bits per second bps

In Amplitude Shift Keying. _____of the signal is/are changed.
Amplitude and Frequency
Amplitude
Frequency and Amplitude
Phase

A variation of AMI encoding is called as _____.
Pseudoternary

We quantize the sampling output into certain levels based on range of_____ and required accuracy.

Frequency

Amplitude
Time period
None

In star based network comprising of four computers and one switch, total number of cables needed will be_____.
1
2
3

4

For a noiseless channel, theoretical formula to calculate the data rate was developed by _____.
Nyquist

Which of the following is not a characteristic of a sine wave?

Amplitude

Segmentation
Phase
Frequency

In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive ant the voltage level for 1
Polar

To calculate the data rate for noiseless channel _____ formula is used.
Nyquist Bit Rate

Polar encoding scheme uses _____ voltage level.
Two different

In a bidirectional communication each layer performs two ____ tasks in each direction.
Opposite

In a computer network, five stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____ topology.

Bus
Ring

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Star
Mesh

In _____ scheme, all the signal levels are on one side of the time axis, either above or below.
Unipolar

_____can be published using Request for Comments (RFCs).

Proposed Standard

Draft Standard
Internet Draft
Internet Standard
In serial data transmission _____ data transmission mode can be cheap but slower.

Synchronous

Asynchronous
Isochronous
Metachronous

Manchester and differential Manchester encoding schemes are subtypes of _____ encoding scheme.
Double

In _____ transmission medium start and stop bits are used
Asynchronous

QPSK stands for_____.

Quality phase shift key

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Queuing phase shift key
Quadrature phase shift key
Quality physical shift key

_____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous

In _____, the instantaneous change in the carrier frequency is proportional to the derivative of the amplitude of the modulating signal.
Phase modulation
Frequency modulation
Amplitude modulation
Quadrature modulation

In FSK, Baud rate is less than or equal to _____ rate.
Bit
Byte
Signal
Decibel

In Ring topology, each node has a point to point dedicated link with.
Exactly 2 nods

Simple sine wave can be used to send -------- .
Amplitude

Bi-polar uses_____ voltage levels.

One

Two
Three

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Four

Low pass channel has_____ bandwidth between two stations.

Dedicated
Shared
Multiplexed
Infinite

In TCP / IP model, the Physical Layer exchanges data in the form of _____.
Bits
_____ layer converts frames coming from Data Link Layer into bits and sends

Them on the transmission medium.

Application
Physical
Network
Transport

To calculate the data rate for noiseless channel _____ formula is used.
Nyquist Bit Rate

A frequency is called ____ if sine wave does not change with time
Zero frequency

The maximum bandwidth required for QAM transmission is the same as that required for _ and _____ transmission.
ASK, PSK

In _____ transmission mode(s), multiple bits are sent simultaneously.

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Parallel transmission

Block coding scheme contains_____ number of steps.
3
4
5
6

Which of following technique(s) is used for Analog-to-Digital Conversion?
Pulse Code modulation (PCM)

_____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.
N*(N-1)

Communication between two user in a cellular (Mobile) network is an example of __ communication **Full duplex**

In ___ encoding scheme, the voltage level oscillates between a positive and a negative value although it may remain at zero level between the two values.
Polar

BFSK stands for_____.

Baud Frequency Shift Key

Binary Frequency Sift Key

Barrier Frequency Shift Key
Bridge Frequency Shift Key

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According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

Continuous
Discrete
Bit length
Homogeneous

Suppose a signal is amplified then the value of decibel will be _____.
0
1
Negative
Positive

_____ is the number of bits sent in 1 second.
Bit rate

In frequency domain plot, which value is replaced with frequency?

Wavelength
Amplitude
Phase
Time

We can have _____different groups with a 4 bit block.
4
6
7
8

_____ means loss of energy in signal.

Noise

Vu Topper RM

Delay
Attenuation
Distortion

Uni polar, polar and bipolar are the types of ——————

Line
Differential Manchester
NRZ-I
Block

If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.

5 bps
10 Hz
0.2 bps

_____ signal completes certain pattern in a specific amount of time.

Non-periodic

Periodic
A Periodic
Wavelength

To calculate the data rate for noisy channel_____ formula is used.

Shannon
Nyquist
Propagation
Greedy

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_____mode of serial transmission guarantees fixed rate data.

- Synchronous
- Asynchronous
- **Isochronous**
- Metasochronous

In TCP\IP model, the Physical Layer exchanges data in the form of _____.

- Packets
- Frames
- **Bits**
- Segments

_____ signal is represented by the discrete values.

- Analog
- **Digital**
- Both
- Continuous

A common Bipolar encoding scheme is called _____.

- **AMI**
- NRZ
- RZ
- QAM

_____ relatively measures the strength of two signals.

- Signal rate
- Bit rate
- **Decibel**
- Pulse rate

Uni polar, polar and bipolar are the types of ——————

Vu Topper RM

- Line
- Differential Manchester
- NRZ-I
- Block

Two PCs and one printer are connected in a network within a room; it is an example of _____.
LAN

In analog transmission of digital data, the required bandwidth is always proportional to the signal rate except in _____, a digital to analog conversion technique.
ASK
NSK
FSK
PSK

Wavelength binds the ------- of a simple sine wave to the propagation speed of the medium.
Period of the frequency book page 61

The Full form of AMI encoding scheme is _____.
Alternate mark inversion

AMI is a popular _____ encoding method.
Bi-polar

A virtual-circuit network is a cross between a _____ network and a datagram network.
Datalink

In an analogue hierarchy to carry voice channels, a super group _____ bandwidth.
240 kHz
240 Hz
120 kHz
60kHz

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Narrow bands of light in wave division multiplexing are denoted by _?
Π
B
A
Lambda λ

LF(low frequency) band is used in _____ propagation
Ground

A local telephone network use _____ network.
Line switched
circuit switched
bit switched
packet switched

Cable TV networks use_____ cables.
coaxial cables

Which digital multiplexing technology is use to allow several connections to share the high bandwidth of a l
TDM
FDM
ADM
WDM

In optical fiber cable, the ratio of the diameter of their core to the diameter of their cladding, both expressed in _____.
Meters
Millimeters
Centimeters
Micrometers

Wireless transmission can be divided into _____ broad groups.
Three

_____ is the sub type of Time Division Multiplexing Technique.
Light TDM

Vu Topper RM

Barrier TDM
Statistical TDM
Amplitude TDM

Simultaneous transmission of multiple signals across a single data link is called_____
Multiplexing
Demultiplexing
Modulation
Demodulation

Cellular telephone uses _____waves for communication.
Radio waves
light wave
infrared waves
microwaves

_____are used for multicast communications, such as radio and television.
Radio waves
light wave
infrared waves
microwaves

Time division multiplexing is used in _____ systems.
Digital
Analog
Hybrid
Automated

A telephone line analog signal has got the bandwidth of _____.
16kHz
12kHz
8kHz
4kHz

In _____ modulation process is used by the transmitting devices to shift their data to a specific carrier frequency for multiplexing.
FDM

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ADM
DAM
SDM

Datagram approach and virtual circuit approach are two popular approaches which lead us to _____.
Circuit switching

A fiber-optic cable transmit signals in the form of _____.
Light
Waves
Sound
None of the given

If the message is going to pass through a packet-switched network, it can be divided into packets of __.
Fixed size
Variable size
Both fix and variable size
None of the these

In circuit switching, when two end devices “A” and “B” connects with each other they send _____ request.
Acceptance

According to stats, fewer than _____ crossbar points can be used at once.
14%
25%
30%
100%

Virtual Circuit Identifier is the _____ of packet.
Length
Header
Size
Address

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In unidirectional antenna, the common point where all the lines intersect each other is ___.
Axis
Focus
Origin
Center

The size of the packet is determined by the network and _____.
Governing Protocol
Instructions
Switching time
Delay

In virtual Circuit network all packets follow _____ path.
Dedicated

Paging system in data communication uses _____ waves
Radio waves
light wave
infrared waves
microwaves

In virtual circuit approach when a frame enters a switch and when it leaves the circuit then its VCI ___
Remain same
Sometimes changes
Remain the same
Always changes

In _____ TDM slots are dynamically allocated to the connected stations to improve bandwidth efficiency.
Statistical
Isochronous
Synchronous
None of the given

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Vu Topper RM

Among the following cables given below _____ cable has the cost as compared to others
Medium

Among the following cables given below _____ cable has the lowest cast as compared to others.
Coaxial cable

Among the following cables given below _____ cable has the highest cast as compared to others.
Fiber optic cable

In synchronous _____, the data flow of each input connection is divided into units, where each input occupies one input time slot.
FDM
TDM
WDM
DWDM

When the bandwidth of a link is greater than the combined bandwidths of the signals, we use _____ multiplexing.
Frequency division
Time division
Hybrid division
Wavelength division

Routing is a function of_____ layer.

Network
Physical
Transport
Datalink

_____ is the process of converting binary data to a digital signal.

QAM

Vu Topper RM

ASK
FSK
Line coding

_____ signals can take infinite levels of intensity over time.

Digital
Discrete
Analog
Logical

Header size _____while moving down the layers at sending side.
Decreases

Set of rules to be followed for effective network communication is called _____.
Protocol

Datagram (packet) travels across _____ in a network.
Switching

During transmission, _____ is the effect of one wire on the other.
Crosstalk
Induced noise
Thermal noise
Thermal noise

The bandwidth-delay product defines the number of bits that can fill the_____.
Link

_____ signal can take infinite levels of intensity over time.
Analog

In Pulse Code Modulation (PCM), the sampling is dependent on _____.
Amplitude

Composite wave can be used to send _____.
Frequency

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_____ is normally used for long-distance data transfer.
Both parallel and Serial data transmission

The conversion of _____ sample of the signal into _____ form is called quantizing process
Sampling and quantizing

When data is sent or received using _____, the data bits are organized in a specific order, since they can only be sent or received one after another.
Serial data transmission

Latency is made of----------components.
Two
Five
Four
Three

If a digital signal has four levels, then we need _____ bits to represent each level.
2
4
6
8

Multipoint channel can be shared in _____ manner.
Both temporal and spartial.

Communication between two users in a Cellular (Mobile) network is an example of _____ communication.
Full duplex

_____ is normally used where speed is priority in data transfer.
Hybrid transmission

Wiring used for transmission modes depends upon _____.
Latency

Transmission medium are of _____ types.

Vu Topper RM

One
Two
Six
Five

If a digital signal has “L” number of levels, _____ is the number of bits required to represent each level.
Log base 2L

In scrambling coding scheme, the number of pulses replacing the bits will be _____
Equal to pulses

We can have combination of _____possible codes with a 5-bit code.
30
32
34
36

When two people are talking to each other in a room then transmission medium between them is:
Air
Cable
Wireless medium
No medium required

Manchester encoding scheme achieves the same level of synchronization as_____.
ARZ
RZ
ARZ1
IMP

_____ is a type of serial transmission in which data bits are transmitted as a continuous stream in time with a master clock. start bits, stop bits, and gaps are not used. Transmitter and receiver time is sync.
Synchronous **Google**

Coaxial cables are categorized by their_____ ratings.

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Radio Government (RG)
Frequency modulation (FM)
Amplitude modulation (AM)
Electronic Industries Association (EIA)

Microwaves are _____.
Bi directional
Unidirectional
Multi directional
Omni directional

A virtual-circuit network is a cross between a _____ network and a datagram network.
Circuit-switched
Packet switched
Message switched
Both message and packet switched network

In _____ multiplexing technique, guard bands are used to avoid overlapping of frequency bands assigned to each user.
FDM **Google**
TDM
PDM
CSMA

In _____ TDM, each input connection has an allotment in the output even if it is not sending data.
Statistical
Isochronous
Synchronous **Google**
Asynchronous

Cable TV uses the _____category of coaxial cable.
RG-47
RG-58

Vu Topper RM

RG-59
RG-11

Connection setup means using _____channels in circuit switched network.?
Satellite
Communication

Modulation of analog signal is needed if the medium is _____ in nature.
Bi-pass
Low-pass
Bandpass
High-pass

Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.
PSK, FSK
FSK, PSK
ASK, FSK.
ASK, PSK
_____ is the scope of VCI variable in virtual circuit approach.
Local
Global
None of these

N=Sxr is the formula for finding _____ .?
Bit rate
Baud rate **Google**
Data element
Signal element

In _____ TDM, a round of data units from each input connection is collected into a frame.

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Statistical
Non-Periodic
Synchronous
Asynchronous

VCI address is _____ address in virtual circuit approach.
Local
Global
Private
Variable

Virtual-Circuit Networks and datagram networks are the sub categories of _____.
Packet-switched networks
Circuit Switched Networks
Message switched networks
Both circuit and message switched networks

Electromagnetic waves ranging in frequencies between 1 and 300 GHz are called_____.
Light wave
Microwaves
Radio waves
Infrared waves

_____ has less electromagnetic interference as compared to other guided medium.
Coaxial
Fiber Optic
Shielded Twisted Pair
Unshielded Twisted Pair

In an analogue hierarchy to carry voice channels, a group can carry _____ voice channels.
60

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12
10
20

In ASK correct formula for calculating the bandwidth is as _____.
B=(1+d)S
B=(1*d)S
B=(d-1)S
B=(d-5)S

Switching at the _____layer in the traditional telephone network uses the circuit-switching approach.
Data Layer
Session Layer
Physical Layer **Google**
Network Layer

In case of Frequency shift key, the difference between two frequencies is represented as_____.
2 Δ
4 Δ
6 Δ
2X5 Δ

Datagram approach and virtual circuit approach are two popular approaches which lead us to _____.
Line switching
Packet switching
Circuit switching
Dynamic switching

The minimum bandwidth required for QAM transmission is the same as that required for _____ and _____ transmission.
ASK, PSK
FSK, ASK

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PSK, FSK
FSK, QPSK

In circuit switching total Delay is combination of Connection Time, Data transfer time and _____.
Switching time
Receiving time
Acknowledgement time
Connection tear down time

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CS-601 Data Communication Update MCQS For Quiz-2 File Solve By Vu Topper RM

85% To 100% Marks



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Which multiplexing technique involves signals composed of light beams?

A. TDM
B. WDM
C. FDM
D. PDM

While implementing Binary ASK or On-Off Keying (OOK), the binary number 1 is used for --------.

A. binary stream of 1s
B. Numbers of 1s in data
C. No amplitude
D. Maintaining the amplitude

In frequency shift keying, _____ remain(s) constant.

A. Both Amplitude and Phase
B. Amplitude
C. Both Phase and Frequency
D. Frequency

Both ---------- remain constant in Frequency Shift Keying.

A. frequency and amplitude
B. bit rate and phase
C. phase and baud rate ok
D. amplitude and phase

_____ technique does not follows analog to analog conversion.

A. PM
B. AM
C. FM
D. QAM

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In statistical time division multiplexing, number of slots in frame are less than _____.

A. Multiplexed T lines
B. Input frequency
C. Output data rate
D. Input lines

In the analog transmission of digital data,the baud rate is _____ to the bit rate.

A. less than or equal
B. greater than
C. less than
D. greater than or equal

PSK is _____ susceptible to noise as compared to ASK.

A. Equally
B. More
C. Highly
D. Less

Technique that allows the simultaneous transmission of multiple signals across a single data link, is known as _____.

A. Encryption
B. Multiplexing
C. Compressing
D. Demodulating

Television broadcast where user can only view the information sent in the form of video is an example of_____ communication.

A. Simplex
B. Complex

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C. Full duplex
D. Half duplex

_____is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.
Capacity=Bandwidth*log2(1+SNR)

Two stations are connected via a secure link in which messages are encrypted from source to the destination. This encrypted message is called _____ .
A. Message
B. Protocol
C. Plain text
D. Cipher text

Taking off the header from the message is called _____.
A. Stuffing
B. Layering
C. Encryption
D. Decapsulation

_____ is the range of frequencies contained in a composite signal.
A. Noise
B. Phase
C. Amplitude
D. Bandwidth

_____is the data format used at Transport layer of TCP/IP Protocol suite.
A. packet
B. segment

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C. bit
D. frame

Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

A. Wide Area Network
B. Local Area Network
C. Home Based Network
D. Metropolitan Area Network

In a complex network communication, we need a protocol at each layer, this process is called _____.

A. Topology
B. Encryption
C. Protocol Layering

Question No:1 (Marks:1) Vu-Topper RM

The most common type of connector used by coaxial cable is _____.

A. BNC
B. RJ-11
C. RJ-57
D. RJ-45

Question No:2 (Marks:1) Vu-Topper RM

Quadrature Amplitude Modulation is the mechanism of _____ conversion.

A. Digital to analog ok
B. Analog to Analog
C. Analog to digital
D. Digital to digital

Question No:3 (Marks:1) Vu-Topper RM

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___have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

A. Microwaves
B. Radio waves
C. Simple waves
D. Infrared waves

Question No:4 (Marks:1) Vu-Topper RM

WDM stands for _____.

A. Worst Data Manipulation
B. Wideband De-Modulation
C. Wideband Division Multiplexing
D. Wavelength Division Multiplexing ok

Question No:5 (Marks:1) Vu-Topper RM

Voltage controlled oscillator(VCO) generates _____ .

A. Carrier Signals
B. Periodic signals Google ok
C. Signal elements
D. Composite Signals

Question No:6 (Marks:1) Vu-Topper RM

A virtual-circuit network operates on _____ layer.

A. Network Google
B. Physical
C. Datalink
D. Application

Question No:7 (Marks:1) Vu-Topper RM

Top most organization that provides support for the Internet Standard process is called_____.

A. Internet Society (ISOC)
B. Internet Architecture Board (IAB)

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C. IETF
D. IRTF

Question No:8 **(Marks:1)** **Vu-Topper RM**
In pulse code modulation the term sampling can also be referred as_____.

A. Pulse Amplitude Modulation
B. Pulse sample Modulation
C. Pulse line modulation
D. Pulse Frequency Modulation

Question No:9 **(Marks:1)** **Vu-Topper RM**
Unit of phase is _____.

A. Watts
B. Bauds
C. Degree
D. Bits per second

Question No:10 **(Marks:1)** **Vu-Topper RM**
Entire band in United States is regulated by_____ authorities.

A. ITU
B. FCC
C. ANSI
D. NASA

Question No:11 **(Marks:1)** **Vu-Topper RM**
In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of

A. 64 kbps
B. 32 kbps
C. 128 kbps
D. 1.544 Mbps

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Question No:12 **(Marks:1)** **Vu-Topper RM**

Radio waves are propagated in_____ whenever they are transmitted by an antenna.

A. All direction
B. Left direction
C. Right direction
D. Only up and down direction

Question No:13 **(Marks:1)** **Vu-Topper RM**

A switched network consists of a series of interlinked _____ called switches.

A. Root
B. Nodes **Google**
C. Points
D. System

Question No:14 **(Marks:1)** **Vu-Topper RM**

In circuit switched networks we have low efficiency but minimal _____.

A. Delay
B. Error
C. Speed
D. Throughput

Question No:15 **(Marks:1)** **Vu-Topper RM**

In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

A. Thermal noise
B. Impulse noise
C. Cross talk
D. Induced noise

Question No:16 **(Marks:1)** **Vu-Topper RM**

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In Amplitude Shift Keying, _____ of the signal is /are changed.

A. Amplitude and Frequency
B. Amplitude ok
C. Frequency and Amplitude
D. Phase

Question No:17 (Marks:1) Vu-Topper RM

A twisted pair cable consists of _____conductors.

A. Two
B. Five
C. Four
D. Three

Question No:18 (Marks:1) Vu-Topper RM

We quantize the sampling output into certain levels based on range of_____ and required accuracy.

A. Frequency
B. Amplitude
C. Time period
D. None

Question No:19 (Marks:1) Vu-Topper RM

In star based network comprising of four computers and one switch, total number of cables needed will be_____.

A. 1
B. 2
C. 3
D. 4

Question No:20 (Marks:1) Vu-Topper RM

Which of the following is not a characteristic of a sine wave?

A. Amplitude
B. Segmentation ok

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C. Phase
D. Frequency

Question No:21 **(Marks:1)** **Vu-Topper RM**

In a computer network, five stations are connected to each other in such a way that each station is connected to every other station through dedicated links. This makes_____ topology.

A. Bus
B. Ring
C. Star
D. Mesh

Question No:22 **(Marks:1)** **Vu-Topper RM**

_____ can be published using Request for Comments (RFCs).

A. Proposed Standard
B. Draft Standard
C. Internet Draft
D. Internet Standard

Question No:23 **(Marks:1)** **Vu-Topper RM**

In serial data transmission _____ data transmission mode can be cheap but slower.

A. Synchronous
B. Asynchronous
C. Isochronous
D. Metachronous

Question No:24 **(Marks:1)** **Vu-Topper RM**

QPSK stands for _____.

A. Quality phase shift key
B. Queuing phase shift key
C. Quadrature phase shift key **ok**

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D. Quality physical shift key

Question No:25 **(Marks:1)** **Vu-Topper RM**

In _____, the instantaneous change in the carrier frequency is proportional to the derivative of the amplitude of the modulating signal.

A. Phase modulation
B. Frequency modulation
C. Amplitude modulation
D. Quadrature modulation

Question No:26 **(Marks:1)** **Vu-Topper RM**

In FSK, Baud rate is less than or equal to _____ rate.

A. Bit **ok**
B. Byte
C. Signal
D. Decibel

Question No:27 **(Marks:1)** **Vu-Topper RM**

Bi-polar uses _____voltage levels.

A. One
B. Two
C. Three
D. Four

Question No:28 **(Marks:1)** **Vu-Topper RM**

Low pass channel has _____ bandwidth between two stations.

A. Dedicated
B. Shared
C. Multiplexed
D. Infinite

Question No:29 **(Marks:1)** **Vu-Topper RM**

Them on the transmission medium.

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A. Application
B. Physical
C. Network
D. Transport

Question No:30 (Marks:1) Vu-Topper RM
Block coding scheme contains_____ number of steps.
A. 3
B. 4
C. 5
D. 6

Question No:31 (Marks:1) Vu-Topper RM
BFSK stands for _____.
A. Baud Frequency Shift Key
B. Binary Frequency Sift Key ok
C. Barrier Frequency Shift Key
D. Bridge Frequency Shift Key

Question No:32 (Marks:1) Vu-Topper RM
According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.
A. Continuous
B. Discrete
C. Bit length
D. Homogeneous

Question No:33 (Marks:1) Vu-Topper RM
Suppose a signal is amplified then the value of decibel will be_____.
A. 0
B. 1
C. Negative
D. Positive

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Question No:34 **(Marks:1)** **Vu-Topper RM**

In frequency domain plot, which value is replaced with frequency?

A. Wavelength
B. Amplitude
C. Phase
D. Time

Question No:35 **(Marks:1)** **Vu-Topper RM**

We can have _____different groups with a 4 bit block.

A. 4
B. 6
C. 7
D. 8

Question No:36 **(Marks:1)** **Vu-Topper RM**

_____ means loss of energy in signal.

A. Noise
B. Delay
C. Attenuation
D. Distortion

Question No:37 **(Marks:1)** **Vu-Topper RM**

Uni polar, polar and bipolar are the types of _____

A. Line
B. Differential Manchester
C. NRZ-I
D. Block

Question No:38 **(Marks:1)** **Vu-Topper RM**

Vu Topper RM

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If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.

A. 5 bps
B. 10 Hz
C. 50 bps
D. 0.2 bps

Question No:39 **(Marks:1)** **Vu-Topper RM**

_____ signal completes certain pattern in a specific amount of time.

A. Non-periodic
B. Periodic
C. A Periodic
D. Wavelength

Question No:40 **(Marks:1)** **Vu-Topper RM**

To calculate the data rate for noisy channel _____ formula is used.

A. Shannon
B. Nyquist bit rate
C. Propagation
D. Greedy

Question No:41 **(Marks:1)** **Vu-Topper RM**

_____mode of serial transmission guarantees fixed rate data.

A. Synchronous
B. Asynchronous
C. Isochronous
D. Metasochronous

Question No:42 **(Marks:1)** **Vu-Topper RM**

In TCP\IP model, the Physical Layer exchanges data in the form of ___.

A. Packets
B. Frames
C. Bits

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D. Segments

Question No:43 (Marks:1) Vu-Topper RM

_____ signal is represented by the discrete values.

A. Analog
B. Digital
C. Both
D. Continuous

Question No:44 (Marks:1) Vu-Topper RM

A common Bipolar encoding scheme is called _____.

A. AMI
B. NRZ
C. RZ
D. QAM

Question No:45 (Marks:1) Vu-Topper RM

_____ relatively measures the strength of two signals.

A. Signal rate
B. Bit rate
C. Decibel
D. Pulse rate

Question No:46 (Marks:1) Vu-Topper RM

Two PCs and one printer are connected in a network within a room; it is an example of _____.

A. LAN
B. WAN
C. MAN
D. ALN

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Question No:47 **(Marks:1)** **Vu-Topper RM**

In analog transmission of digital data, the required bandwidth is always proportional to the signal rate except in _____, a digital to analog conversion technique.

A. ASK ok
B. NSK
C. FSK
D. PSK

Question No:48 **(Marks:1)** **Vu-Topper RM**

A local telephone network use _____ network.

A. Line switched
B. Circuit switched
C. Bit switched
D. Packet switched

Question No:49 **(Marks:1)** **Vu-Topper RM**

In an analogue hierarchy to carry voice channels, a super group has _____ bandwidth.

A. 60kHz ok
B. 240 Hz
C. 240 kHz
D. 120 kHz

Question No:50 **(Marks:1)** **Vu-Topper RM**

Narrow bands of light in wave division multiplexing are denoted by _____.

A. α
B. β
C. λ ok
D. π

Question No:51 **(Marks:1)** **Vu-Topper RM**

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Which digital multiplexing technology is use to allow several connections to share the high bandwidth of a l

A. TDM
B. FDM
C. ADM
D. WDM

Question No:52 **(Marks:1)** **Vu-Topper RM**

In optical fiber cable, the ratio of the diameter of their core to the diameter of their cladding, both expressed in _____.

A. Meters
B. Millimeters
C. Centimeters
D. Micrometers

Question No:53 **(Marks:1)** **Vu-Topper RM**

Wireless transmission can be divided into _____ broad groups.

A. One
B. Two
C. Three
D. None of these

Question No:54 **(Marks:1)** **Vu-Topper RM**

_____ is the sub type of Time Division Multiplexing Technique.

A. Light TDM
B. Barrier TDM
C. Statistical TDM **ok**
D. Amplitude TDM

Question No:55 **(Marks:1)** **Vu-Topper RM**

Simultaneous transmission of multiple signals across a single data link is called _____.

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A. Multiplexing **ok**
B. Demultiplexing
C. Modulation
D. Demodulation

Question No:56 **(Marks:1)** **Vu-Topper RM**
Cellular telephone uses _____waves for communication.
A. Radio waves
B. light wave
C. infrared waves
D. microwaves

Question No:57 **(Marks:1)** **Vu-Topper RM**
Time division multiplexing is used in _____ systems.
A. Digital **Google**
B. Analog
C. Hybrid
D. Automated

Question No:58 **(Marks:1)** **Vu-Topper RM**
A telephone line analog signal has got the bandwidth of _____.
A. 8kHz
B. 4kHz **ok**
C. 16kHz
D. 12kHz

Question No:59 **(Marks:1)** **Vu-Topper RM**
In _____, modulation process is used by the transmitting devices to shift their data to a specific carrier frequency for multiplexing.
A. FDM **ok**
B. ADM
C. DAM
D. SDM

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Question No:60 **(Marks:1)** **Vu-Topper RM**

A fiber-optic cable transmit signals in the form of _____.

A. Light
B. Waves
C. Sound
D. None of the given

Question No:61 **(Marks:1)** **Vu-Topper RM**

If the message is going to pass through a packet-switched network, it can be divided into packets of __.

A. Fixed size
B. Variable size
C. Both fix and variable size
D. None of the these

Question No:62 **(Marks:1)** **Vu-Topper RM**

Paging System in data communication uses _____ waves.

A. Radio waves
B. light wave
C. infrared waves
D. microwaves

Question No:63 **(Marks:1)** **Vu-Topper RM**

According to stats, fewer than _____ crossbar points can be used at once.

A. 14%
B. 25%
C. 30%
D. 100%

Question No:64 **(Marks:1)** **Vu-Topper RM**

Virtual Circuit Identifier is the _____ of packet.

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A. Length
B. Header
C. Size
D. Address

Question No:65 **(Marks:1)** **Vu-Topper RM**

In unidirectional antenna, the common point where all the lines intersect each other is ___.

A. Axis
B. Focus
C. Origin
D. Center

Question No:66 **(Marks:1)** **Vu-Topper RM**

The size of the packet is determined by the network and _____.

A. Governing Protocol
B. Instructions
C. Switching time
D. Delay

Question No:67 **(Marks:1)** **Vu-Topper RM**

In virtual circuit approach when a frame enters a switch and when it leaves the circuit then its VCI ___

A. Remain same
B. Sometimes changes
C. Remain the same
D. Always changes

Question No:68 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

In _____ TDM, slots are dynamically allocated to the connected stations to improve bandwidth efficiency.

A. Statistical
B. Isochronous
C. Synchronous ok
D. None of the given

Question No:69 (Marks:1) Vu-Topper RM

In synchronous _____, the data flow of each input connection is divided into units, where each input occupies one input time slot.

A. FDM
B. TDM Google
C. WDM
D. DWDM

Question No:70 (Marks:1) Vu-Topper RM

When the bandwidth of a link is greater than the combined bandwidths of the signals, we use _____ multiplexing.

A. Frequency division ok
B. Time division
C. Hybrid division
D. Wavelength division

Question No:71 (Marks:1) Vu-Topper RM

Routing is a function of_____ layer.

A. Network
B. Physical
C. Transport
D. Datalink

Question No:72 (Marks:1) Vu-Topper RM

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_____ is the process of converting binary data to a digital signal.

A. QAM
B. ASK
C. FSK
D. Line coding

Question No:73 (Marks:1) Vu-Topper RM

_____ signals can take infinite levels of intensity over time.

A. Digital
B. Discrete
C. Analog
D. Logical

Question No:74 (Marks:1) Vu-Topper RM

During transmission, _____ is the effect of one wire on the other.

A. Crosstalk
B. Induced noise
C. Thermal noise
D. Thermal noise

Question No:75 (Marks:1) Vu-Topper RM

Latency is made of----------components.

A. Two
B. Five
C. Four
D. Three

Question No:76 (Marks:1) Vu-Topper RM

If a digital signal has four levels, then we need _____ bits to represent each level.

A. 2
B. 4

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Vu Topper RM

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C. 6
D. 8

Question No:77 **(Marks:1)** **Vu-Topper RM**

_____ is a digital process that allows connections to share the high bandwidth of a link.

A. TDM
B. FDM
C. ADM
D. WDM

Question No:78 **(Marks:1)** **Vu-Topper RM**

Transmission medium are of _____ types.

A. One
B. Two
C. Six
D. Five

Question No:79 **(Marks:1)** **Vu-Topper RM**

_____are used for multicast communications, such as radio and television.

A. Radio waves
B. light wave
C. infrared waves
D. microwaves

Question No:80 **(Marks:1)** **Vu-Topper RM**

We can have combination of _____possible codes with a 5-bit code.

A. 30
B. 32
C. 34
D. 36

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Question No:81 **(Marks:1)** **Vu-Topper RM**

When two people are talking to each other in a room then transmission medium between them is:

A. Air
B. Cable
C. Wireless medium
D. No medium required

Question No:82 **(Marks:1)** **Vu-Topper RM**

Manchester encoding scheme achieves the same level of synchronization as_____.

A. ARZ
B. RZ
C. ARZ1
D. IMP

Question No:83 **(Marks:1)** **Vu-Topper RM**

Coaxial cables are categorized by their_____ ratings.

A. Radio Government (RG)
B. Frequency modulation (FM)
C. Amplitude modulation (AM)
D. Electronic Industries Association (EIA)

Question No:84 **(Marks:1)** **Vu-Topper RM**

Microwaves are _____.

A. Bi directional
B. Unidirectional
C. Multi directional
D. Omni directional

Question No:85 **(Marks:1)** **Vu-Topper RM**

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A virtual-circuit network is a cross between a _____ network and a datagram network.

A. Circuit-switched
B. Packet switched
C. Message switched
D. Both message and packet switched network

Question No:86 **(Marks:1)** **Vu-Topper RM**

In _____ multiplexing technique, guard bands are used to avoid overlapping of frequency bands assigned to each user.

A. FDM **Google** **ok**
B. TDM
C. PDM
D. CSMA

Question No:87 **(Marks:1)** **Vu-Topper RM**

In _____ TDM, each input connection has an allotment in the output even if it is not sending data.

A. Statistical
B. Isochronous
C. Synchronous **Google** **ok**
D. Asynchronous

Question No:88 **(Marks:1)** **Vu-Topper RM**

Cable TV uses the _____category of coaxial cable.

A. RG-47
B. RG-58
C. RG-59
D. RG-11

Question No:89 **(Marks:1)** **Vu-Topper RM**

Connection setup means using _____channels in circuit switched network.?

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A. Satellite
B. Both
C. Communication
D. None of the these

Question No:90 **(Marks:1)** **Vu-Topper RM**
Modulation of analog signal is needed if the medium is _____ in nature.
A. Bi-pass
B. Low-pass
C. Bandpass
D. High-pass

Question No:91 **(Marks:1)** **Vu-Topper RM**
Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.
A. PSK, FSK
B. FSK, PSK **ok**
C. ASK, FSK.
D. ASK, PSK

Question No:92 **(Marks:1)** **Vu-Topper RM**
_____ is the scope of VCI variable in virtual circuit approach.
A. Local
B. Global
C. Both
D. None of these

Question No:93 **(Marks:1)** **Vu-Topper RM**
N=Sxr is the formula for finding _____ .?
A. Bit rate
B. Baud rate **Google** **ok**
C. Data element

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D. Signal element

Question No:94 **(Marks:1)** **Vu-Topper RM**

In _____ TDM, a round of data units from each input connection is collected into a frame.

A. Statistical
B. Non-Periodic
C. Synchronous
D. Asynchronous

Question No:95 **(Marks:1)** **Vu-Topper RM**

VCI address is _____ address in virtual circuit approach.

A. Local
B. Global
C. Private
D. Variable

Question No:96 **(Marks:1)** **Vu-Topper RM**

Virtual-Circuit Networks and datagram networks are the sub categories of _____.

A. Packet-switched networks
B. Circuit Switched Networks
C. Message switched networks
D. Both circuit and message switched networks

Question No:97 **(Marks:1)** **Vu-Topper RM**

Electromagnetic waves ranging in frequencies between 1 and 300 GHz are called_____.

A. Light wave
B. Microwaves
C. Radio waves
D. Infrared waves

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Question No:98 **(Marks:1)** **Vu-Topper RM**

_____ has less electromagnetic interference as compared to other guided medium.

A. Coaxial
B. Fiber Optic
C. Shielded Twisted Pair
D. Unshielded Twisted Pair

Question No:99 **(Marks:1)** **Vu-Topper RM**

In an analogue hierarchy to carry voice channels, a group can carry _____ voice channels.

A. 60
B. 12 **ok**
C. 10
D. 20

Question No:100 **(Marks:1)** **Vu-Topper RM**

In ASK correct formula for calculating the bandwidth is as _____.

A. B=(1+d)S **ok**
B. B=(1*d)S
C. B=(d-1)S
D. B=(d-5)S

Question No:101 **(Marks:1)** **Vu-Topper RM**

Switching at the _____layer in the traditional telephone network uses the circuit-switching approach.

A. Data Layer
B. Session Layer
C. Physical Layer **Google**
D. Network Layer

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Question No:102 **(Marks:1)** **Vu-Topper RM**

In case of Frequency shift key, the difference between two frequencies is represented as_____.

A. 2 Δ **ok**

B. 4 Δ

C. 6 Δ

D. 2X5 Δ

Question No:103 **(Marks:1)** **Vu-Topper RM**

Datagram approach and virtual circuit approach are two popular approaches which lead us to _____.

A. Line switching

B. Packet switching

C. Circuit switching

D. Dynamic switching

Question No:104 **(Marks:1)** **Vu-Topper RM**

The minimum bandwidth required for QAM transmission is the same as that required for _____ and _____ transmission.

A. ASK, PSK **ok**

B. FSK, ASK

C. PSK, FSK

D. FSK, QPSK

Question No:105 **(Marks:1)** **Vu-Topper RM**

In circuit switching total Delay is combination of Connection Time, Data transfer time and _____.

A. Switching time

B. Receiving time

C. Acknowledgement time

D. Connection tear down time

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Question No:106 **(Marks:1)** **Vu-Topper RM**

RG-11 having impedance of 50 Ohm is used in _____ Ethernet.

A. Thin
B. Fast
C. Thick
D. None of these

Question No:107 **(Marks:1)** **Vu-Topper RM**

Line coding scheme is roughly divide into_____ broad categories.?

A. Five
B. One
C. Two
D. Zero

Question No:108 **(Marks:1)** **Vu-Topper RM**

Normally the value of K max in pure ALOHA is _____.

A. 15
B. 14
C. 13
D. 12

Question No:109 **(Marks:1)** **Vu-Topper RM**

YMODEM has _____ Byte of data unit.

A. 1024
B. 2410
C. 2210
D. 1042

Question No:110 **(Marks:1)** **Vu-Topper RM**

In Block coding scheme, number of code words is always _____ data words.

Equal to

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Question No:111 **(Marks:1)** **Vu-Topper RM**
Which one of the following is not a Channelization Protocol?
CSMA

Question No:112 **(Marks:1)** **Vu-Topper RM**
_____ is an Authentication Protocol, which uses two-step process to authenticate user information.
PAP

Question No:113 **(Marks:1)** **Vu-Topper RM**
The transmission medium that carries the message is referred to as the _____.
Communication channel

Question No:114 **(Marks:1)** **Vu-Topper RM**
Which error detection method uses one's complement arithmetic
Checksum

Question No:115 **(Marks:1)** **Vu-Topper RM**
Like 10 Base 5, 10 Base 2 is a _____ topology LAN.
Bus

Question No:116 **(Marks:1)** **Vu-Topper RM**
There are _____ types of serial transmission
2

Question No:117 **(Marks:1)** **Vu-Topper RM**
_____ and _____are the two types of addressing in virtual circuit approach.

A. **Local, Global**
B. Private, Public
C. Variable, Dynamic

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Vu Topper RM

D. Dependent, Independent

Question No:118 **(Marks:1)** **Vu-Topper RM**
Bandwidth can be measured in _____.
bits per second bps

Question No:119 **(Marks:1)** **Vu-Topper RM**
A variation of AMI encoding is called as _____.
Polar
Uni-code
Uni-polar
Pseudoternary

Question No:120 **(Marks:1)** **Vu-Topper RM**
For a noiseless channel, theoretical formula to calculate the data rate was developed by _____.
A. Rivest
B. Nyquist Google
C. Shannon
D. Hamming

Question No:121 **(Marks:1)** **Vu-Topper RM**
In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive ant the voltage level for 1
Polar

Question No:122 **(Marks:1)** **Vu-Topper RM**
Polar encoding scheme uses _____ voltage level.
2
4
6
8

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Vu Topper RM

Question No:123 **(Marks:1)** **Vu-Topper RM**
In a bidirectional communication each layer performs two ____ tasks in each direction.
Opposite

Question No:124 **(Marks:1)** **Vu-Topper RM**
In _____ Scheme, all the signal levels are on one side of the time axis, either above or below.

A. Polar
B. Bipolar
C. Unipolar **Google**
D. Multiplexed coding

Question No:125 **(Marks:1)** **Vu-Topper RM**
Manchester and differential Manchester encoding schemes are subtypes of _____ encoding scheme.
Double

Question No:126 **(Marks:1)** **Vu-Topper RM**
In _____ transmission medium start and stop bits are used
Asynchronous

Question No:127 **(Marks:1)** **Vu-Topper RM**
In Ring topology, each node has a point to point dedicated link with.
Exactly 2 nods

Question No:128 **(Marks:1)** **Vu-Topper RM**
Simple sine wave can be used to send -------- .
Amplitude

Question No:129 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

_____ layer converts frames coming from Data Link layer into bits and sends them on the transmission medium.

A. Network
B. Physical
C. Transport
D. Application

Question No:130 (Marks:1) Vu-Topper RM

The maximum bandwidth required for QAM transmission is the same as that required for _ and _____ transmission.

ASK, PSK

Question No:131 (Marks:1) Vu-Topper RM

In _____ transmission mode(s), multiple bits are sent simultaneously.

Serial
Parallel
Sequential
In Serial and Parallel

Question No:132 (Marks:1) Vu-Topper RM

Which of following technique(s) is used for Analog-to-Digital Conversion.

Bit Modulation(BDM)
Delta Modulation (DM)
Pulse Code modulation (PCM)
Both Pulse Code and Delta Modulation

Question No:133 (Marks:1) Vu-Topper RM

_____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

N*(N-1)

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Question No:134 **(Marks:1)** **Vu-Topper RM**

In _____ encoding scheme, the voltage level oscillates between a positive and a negative value although it may remain at zero level between the two values.

A. Polar
B. Bi-Polar
C. Uni-Polar
D. Non-Polar

Question No:135 **(Marks:1)** **Vu-Topper RM**

_____ is the number of bits sent in 1 second.

A. Period
B. Bit rate **Google**
C. Latency
D. Frequency

Question No:136 **(Marks:1)** **Vu-Topper RM**

Wavelength binds the ------- of a simple sine wave to the propagation speed of the medium.

Period of the frequency **Page 61**

Question No:137 **(Marks:1)** **Vu-Topper RM**

The Full form of AMI encoding scheme is _____.

A. Alternate state inversion
B. Alternate mark inversion
C. Alternate multiple inversion
D. Alternate multilevel inversion

Question No:138 **(Marks:1)** **Vu-Topper RM**

AMI is a popular _____ encoding method.

A. Polar
B. Bi-polar

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Vu Topper RM

C. Uni-polar
D. Substitution

Question No:139 **(Marks:1)** **Vu-Topper RM**
LF (Low Frequency) band is used in _____ propagation.
A. Sky
B. Ground **Goolge**
C. Single Mode
D. Line of Sight

Question No:140 **(Marks:1)** **Vu-Topper RM**
Cable TV networks use_____ cables.
Coaxial cables

Question No:141 **(Marks:1)** **Vu-Topper RM**
In circuit switching, when two end devices "A" and "B" connects with each other they send _____ request.
A. Setup
B. Inquiry
C. Switching
D. Acceptance

Question No:142 **(Marks:1)** **Vu-Topper RM**
In virtual Circuit network all packets follow _____ path.
A. Dedicated
B. Individual
C. Alternative
D. Centralized

Question No:143 **(Marks:1)** **Vu-Topper RM**
Among the following cables given below _____ cable has the cost as compared to others
Medium

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Question No:144 **(Marks:1)** **Vu-Topper RM**
Among the following cables given below _____ cable has the lowest cast as compared to others.
Coaxial cable

Question No:145 **(Marks:1)** **Vu-Topper RM**
Among the following cables given below, _____cable provides highest bandwidth and less attenuation.
A. UTP
B. STP
C. Coaxial cable
D. Fiber optic cable

Question No:146 **(Marks:1)** **Vu-Topper RM**
Header size _____while moving down the layers at sending side.
A. Increases
B. Decreases
C. Remain same
D. Headers and layers are unrelated

Question No:147 **(Marks:1)** **Vu-Topper RM**
Set of rules to be followed for effective network communication is called _____.
Protocol
Topology
Switching
Encryption

Question No:148 **(Marks:1)** **Vu-Topper RM**
Datagram (packet) travels across _____ in a network.
A. Hub

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B. Modem
C. Routers
D. Switching

Question No:149 (Marks:1) Vu-Topper RM
The bandwidth-delay product defines the number of bits that can fill the_____.
Link

Question No:150 (Marks:1) Vu-Topper RM
In Pulse Code Modulation (PCM), the sampling is dependent on _____.
Time
Frequency
Amplitude
Signal Rate

Question No:151 (Marks:1) Vu-Topper RM
Composite wave can be used to send _____.
Frequency

Question No:152 (Marks:1) Vu-Topper RM
_____ is normally used for long-distance data transfer.
Both parallel and Serial data transmission

Question No:153 (Marks:1) Vu-Topper RM
The conversion of _____ sample of the signal into _____ form is called quantizing process
Sampling and quantizing

Question No:154 (Marks:1) Vu-Topper RM

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When data is sent or received using _____, the data bits are organized in a specific order, since they can only be sent or received one after another.

A. Parallel data transmission
B. Hybrid data transmission
C. Serial data transmission
D. Both parallel and serial transmission

Question No:155 (Marks:1) Vu-Topper RM

Multipoint channel can be shared in _____ manner.

Both temporal and spartial.

Question No:156 (Marks:1) Vu-Topper RM

Communication between two users in a Cellular (Mobile) network is an example of _____ communication.

Simplex
Complex
Half duplex
Full duplex

Question No:157 (Marks:1) Vu-Topper RM

_____ is normally used where speed is priority in data transfer.

Hybrid transmission

Question No:158 (Marks:1) Vu-Topper RM

Wiring used for transmission modes depends upon _____.

A. Latency
B. Data Stream
C. Data Sniffing
D. Packet Tracing

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Question No:159 **(Marks:1)** **Vu-Topper RM**

If a digital signal has "L" number of levels, _____ is the number of bits required to represent each level.

Log base 2L

Question No:160 **(Marks:1)** **Vu-Topper RM**

In scrambling coding scheme, the number of pulses replacing the bits will be _____

Equal to pulses

Question No:161 **(Marks:1)** **Vu-Topper RM**

_____ is a type of serial transmission in which data bits are transmitted as a continuous stream in time with a master clock. start bits, stop bits, and gaps are not used. Transmitter and receiver time is sync.

A. Isochronous
B. Synchronous **Google**
C. Asynchronous
D. Metasochronous

Question No:162 **(Marks:1)** **Vu-Topper RM**

TCP/IP was presented by_____ in a research paper.

A. Vin Cerf and bob Kahn
B. Vint Cerf and David Lazer
C. Bob Kahn and Kathleen Carley
D. Duncan Watts and Peter Bearman

Question No:163 **(Marks:1)** **Vu-Topper RM**

HDB3 falls under which coding scheme?

Bipolar

Question No:164 **(Marks:1)** **Vu-Topper RM**

A frequency is called ------, if the rate of change in sine wave is instantaneous.

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Vu Topper RM

A. Bandwidth
B. Zero frequency
C. Frequency hertz
D. Infinite frequency

Question No:165 (Marks:1) Vu-Topper RM
The bipolar encoding scheme was developed as an alternative of _____.
NRZ

Question No:166 (Marks:1) Vu-Topper RM
In _____ TCP/IP was declared as the official protocol of internet.
1983
1980
1973
1988

Question No:167 (Marks:1) Vu-Topper RM
If 32 bits are sent in two seconds then bitrate for that signal is _____.
A. 8 Hz
B. 16 bps
C. 32 bps
D. 64bps

Question No:168 (Marks:1) Vu-Topper RM
In _____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous

Question No:169 (Marks:1) Vu-Topper RM

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Vu Topper RM

Some manufacturers provide a special port called the _____ port that allows a wireless keyboard to communicate with a PC.

A. USB
B. IRDA
C. Parallel
D. Consol

Question No:170 (Marks:1) Vu-Topper RM

There are _____ components of data communication system.

5

Question No:171 (Marks:1) Vu-Topper RM

Which one of following is a scrambling coding technique?

A. BZ8S
B. B8ZS Google
C. B8SZ
D. BOSZ

Question No:172 (Marks:1) Vu-Topper RM

In NRZ-I the signal is inverted if _____ is encountered.

A. 0
B. 1
C. 00
D. 11

Question No:173 (Marks:1) Vu-Topper RM

_____ layer is responsible for creating datagrams.

Network

Question No:174 (Marks:1) Vu-Topper RM

_____ is the Nyquist bit rate formula for noiseless channel.

BitRate =2*Bandwidth* L
BitRate =2*Bandwidth*log2

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BitRate =3*Bandwidth*log2 L
BitRate=2*Bandwidth*log2 L

Question No:175 (Marks:1) Vu-Topper RM
Signals travel through fiber optic cable are in the form of _____.
A. Bits
B. Bytes
C. Light ok
D. Electromagnetic wave

Question No:176 (Marks:1) Vu-Topper RM
When data is sent using _____ , multiple data bits are transmitted over multiple channels at the same time.
A. Serial data transmission
B. Hybrid data transmission
C. Parallel data transmission
D. Both parallel and serial transmission

Question No:177 (Marks:1) Vu-Topper RM
In Binary ASK, the peak amplitude of one signal level is 0 and the other is the same as the _____ of the carrier.
A. Phase
B. Amplitude ok
C. Frequency
D. Modulation

Question No:178 (Marks:1) Vu-Topper RM
_____category of coaxial cable is used for thin Ethernet.
A. RG-11
B. RG-58
C. RG-47
D. RG-59

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Question No:179 **(Marks:1)** **Vu-Topper RM**

Time taken by a periodic signal to complete one cycle is called ____.

Period

Question No:180 **(Marks:1)** **Vu-Topper RM**

QAM stands for _____ .

A. Quarter Altitude Modulator
B. Quadrature Amplitude Modifier
C. Quadrature Amplifier Modulation
D. Quadrature Amplitude Modulation

Question No:181 **(Marks:1)** **Vu-Topper RM**

According to Nyquist theorem, the sampling rate must be at least _____ times the highest frequency contained in the signal.

A. 2 **Google**
B. 4
C. 6
D. 8

Question No:182 **(Marks:1)** **Vu-Topper RM**

_____ is an example of transmitter.

Hub
Server
Modem
Work station

Question No:183 **(Marks:1)** **Vu-Topper RM**

_____ is composed of thousands of interconnected networks expanded over large geographical area.

A. The Internet
B. Home Network
C. Local area network WAN
D. Metropolitan Area Network

Vu Topper RM

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Question No:184 **(Marks:1)** **Vu-Topper RM**
In frequency domain plot, which value is plot on Y-axis?
Time
Amplitude
Frequency
Wavelength

Question No:185 **(Marks:1)** **Vu-Topper RM**
_____ signal completes a certain pattern in a specific amount of time.
Periodic

Question No:186 **(Marks:1)** **Vu-Topper RM**
The baud rate is _____ to the bit rate.
Measure

Question No:187 **(Marks:1)** **Vu-Topper RM**
The material used for conduction in twisted pair cable is _____.
A. Gold
B. Silver
C. Copper
D. Aluminum

Question No:188 **(Marks:1)** **Vu-Topper RM**
In _____ topology, each computer/station is attached to other through a central device.
Star topology

Question No:189 **(Marks:1)** **Vu-Topper RM**
In frequency modulation, the frequency of the oscillator changes according to the _____.
Input Voltage

Question No:190 **(Marks:1)** **Vu-Topper RM**

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Vu Topper RM

_____ is the heart of block coding.
Substitution **Google**

Question No:191 **(Marks:1)** **Vu-Topper RM**
In transmission impairments _____noise occurs from other sources like motors and appliances etc.
Impulse
Thermal
Induced
Cross talk

Question No:192 **(Marks:1)** **Vu-Topper RM**
Demultiplexer is a_____ device.
One to many

Question No:193 **(Marks:1)** **Vu-Topper RM**
Low pass channel with _____ bandwidth is not real and is used for theoretical modeling
Narrow

Question No:194 **(Marks:1)** **Vu-Topper RM**
_____ is NOT an example of connecting device.
TCP

Question No:195 **(Marks:1)** **Vu-Topper RM**
Parabolic antenna is used for_____ communication.
Microwave

Question No:196 **(Marks:1)** **Vu-Topper RM**
Token Ring was devised by _____.
A. OSI
B. IBM **Google**

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Vu Topper RM

C. DELL
D. NASA

Question No:197 **(Marks:1)** **Vu-Topper RM**
Induced noise Cable TV networks use_____ cables.
Coaxial

Question No:198 **(Marks:1)** **Vu-Topper RM**
Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.
A. Light wave
B. Radio waves **Google**
C. Microwaves
D. Infrared waves

Question No:199 **(Marks:1)** **Vu-Topper RM**
Most commonly used connector for twisted pair cable is _____.
A. RJ-11
B. RJ-45
C. RJ-44
D. RJ-52

Question No:200 **(Marks:1)** **Vu-Topper RM**
Binary Amplitude Shift Keying is also called as:
On-Off Keying

Question No:201 **(Marks:1)** **Vu-Topper RM**
_____ is a multiplexing technique which shifts each signal to a different carrier frequency.
FDM

Question No:202 **(Marks:1)** **Vu-Topper RM**
in NRZ-1 the signal is inverted if ————- is encountered.
1

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Vu Topper RM

Question No:203 **(Marks:1)** **Vu-Topper RM**

————————- Protocol suite is being used by the modern internet communication.

TCP/IP

Question No:204 **(Marks:1)** **Vu-Topper RM**

In ———— signal changes its shape or form.

Distortion

Question No:205 **(Marks:1)** **Vu-Topper RM**

At the application layer, object/information is in the form of _____.

Segment

Question No:206 **(Marks:1)** **Vu-Topper RM**

the first step in PCM technique.

A. Encoding
B. Sampling
C. Quantizing
D. Substitution

Question No:207 **(Marks:1)** **Vu-Topper RM**

A frequency is called ____ if sine wave does not change with time

Zero frequency

Question No:208 **(Marks:1)** **Vu-Topper RM**

Open system interconnection (OSI) has __ number of layers

7

Question No:209 **(Marks:1)** **Vu-Topper RM**

N= S*r is the formula for finding

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Vu Topper RM

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Baud rate

Question No:210 **(Marks:1)** **Vu-Topper RM**
In context of bandwidth-delay product, the cross section of the pipe represents the _____.
Bandwidth

Question No:211 **(Marks:1)** **Vu-Topper RM**
OSI stands for _____.
Open System Interface
Open Source Interconnection
Open system interconnection
Open Standard Interconnection

Question No:212 **(Marks:1)** **Vu-Topper RM**
Writing used for transmission modes depends upon _____.
Data stream

Question No:213 **(Marks:1)** **Vu-Topper RM**
Minimum bandwidth required for Manchester line coding scheme is_____.
A. 1Mhz **Google**
B. 2Mhz
C. 1Ghz
D. 3Ghz

Question No:214 **(Marks:1)** **Vu-Topper RM**
Packets travel in ____ layer of TCP/IP protocol suit
Network

Question No:215 **(Marks:1)** **Vu-Topper RM**
_____ protocol suit is being used by the modern internet communication

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Vu Topper RM

TCP/IP

Question No:216 (Marks:1) Vu-Topper RM
Frames travel in _____ layer of TCP/IP Protocol suite.
Network
Data link
Application
Presentation

Question No:217 (Marks:1) Vu-Topper RM
There are __ common scrambling technique
Two

Question No:218 (Marks:1) Vu-Topper RM
FSK stands for _____.
A. Fake Shift Keying
B. Foreign shift keying
C. Frequency Swift king
D. Frequency shift keying ok

Question No:219 (Marks:1) Vu-Topper RM
Switch is a _____ layer device.
Network
Transport
Data link
Application

Question No:220 (Marks:1) Vu-Topper RM
In PCM technique Quantization is an _____ process
Un-balanced

Question No:221 (Marks:1) Vu-Topper RM

Vu Topper RM

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The layer of TCP/IP protocol suite which is on the top is known as _____ layer.
Application

Question No:222 (Marks:1) Vu-Topper RM
Manchester encoding scheme uses and inversion at the _____ of each bit
Middle

Question No:223 (Marks:1) Vu-Topper RM
High-Level Data Link Control(HDLC) defines ____ types of frames to deal with the transfer modes.
3

Question No:224 (Marks:1) Vu-Topper RM
_____ are used to transport user data and control information relating to user data
Information frams

Question No:225 (Marks:1) Vu-Topper RM
_____ are used to exchange session management and control information between connected devices.
U-frames

Question No:226 (Marks:1) Vu-Topper RM
The _____ is the number of signal elements sent per unit time.
Bit rate

Question No:227 (Marks:1) Vu-Topper RM
Error correction is more _____ than the error detection
Difficult

Question No:228 (Marks:1) Vu-Topper RM

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Vu Topper RM

One of the most common protocols for point-to-point access is _____.

PPP

Question No:229 (Marks:1) Vu-Topper RM

Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching

Ture

False

Question No:230 (Marks:1) Vu-Topper RM

Which one is not the function of data link layer?

Line discipline

Question No:231 (Marks:1) Vu-Topper RM

Is not a function of Data Link Control.

Modulation

Question No:232 (Marks:1) Vu-Topper RM

The _____ protocol uses both flow and error control.

Stop-and-Wait

Question No:233 (Marks:1) Vu-Topper RM

The _____ technique expands the bandwidth of a signal by replacing each data bit with n bits using a spreading code.

A. FDM
B. TDM
C. DSSS ok
D. FHSS

Question No:234 (Marks:1) Vu-Topper RM

Digital signals are refered to be _____.

Discrete

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Vu Topper RM

Question No:235 **(Marks:1)** **Vu-Topper RM**
The original Ethernet technology with the data rate of 10 Mbps is called _____?
Standard Ethernet

Question No:236 **(Marks:1)** **Vu-Topper RM**
The extra bits added with the original data for error detection/correction are called _____.
Redundant bits

Question No:237 **(Marks:1)** **Vu-Topper RM**
In _____, each station sends a frame whenever it has a frame to send.
Slotted ALOHA

Question No:238 **(Marks:1)** **Vu-Topper RM**
In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____
Packetizing

Question No:239 **(Marks:1)** **Vu-Topper RM**
What is the period of a Sine wave having frequency of 5 Hz?
0.2

Question No:240 **(Marks:1)** **Vu-Topper RM**
In Pure ALOHA, the vulnerable time is _____ the frame transmission time.
Two times

Question No:241 **(Marks:1)** **Vu-Topper RM**
Analog refers to something that is continuous in _____.
Time

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Vu Topper RM

Question No:242 **(Marks:1)** **Vu-Topper RM**

_____ encoding is almost obsolete today

Unipolar

Question No:243 **(Marks:1)** **Vu-Topper RM**

Which of the following is most affected by noise?

ASK

Question No:244 **(Marks:1)** **Vu-Topper RM**

_____is sometimes called the bit rate.

A. pulse rate
B. **Data rate**
C. signal rate
D. modulation rate

Question No:245 **(Marks:1)** **Vu-Topper RM**

_____ contains a repeater.

Active hub

Question No:246 **(Marks:1)** **Vu-Topper RM**

Asynchronous transmission is _____.

Slow

Question No:247 **(Marks:1)** **Vu-Topper RM**

In ASK, both _____ and _____ remain constant.

Frequency, Phase

Question No:248 **(Marks:1)** **Vu-Topper RM**

DLC in Data Link Layer stands for _____.

Data Link Control

Vu Topper RM

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Question No:249 **(Marks:1)** **Vu-Topper RM**

In _____, each station is allocated a time slot during which it can send data.

TDMA

Question No:250 **(Marks:1)** **Vu-Topper RM**

Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

Large

Question No:251 **(Marks:1)** **Vu-Topper RM**

Human voice is example of _____ signal

Analog

Question No:252 **(Marks:1)** **Vu-Topper RM**

The human voice normally contains frequency range from _____.

A. 0 to 6000 Hz
B. 0 to 5000 Hz
C. 0 to 3000 Hz
D. 0 to 4000 Hz **Google**

Question No:253 **(Marks:1)** **Vu-Topper RM**

According to the Fourier analysis, frequencies obtained after decomposition of non periodic digital signals are _____.

A. Bit length
B. Automatic
C. Continuous
D. Heterogeneous

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Vu Topper RM

Question No:254 **(Marks:1)** **Vu-Topper RM**

The addresses of transport layer are in the form of _____.

A. Name

B. Port numbers **Google**

C. Logical addresses

D. Link-layer addresses

Question No:255 **(Marks:1)** **Vu-Topper RM**

_____ is the example of multipoint topology.

A. Bus **Google**

B. Star

C. Hub

D. Mesh

Question No:256 **(Marks:1)** **Vu-Topper RM**

_____ component of data communication governs the overall communication on the network.

A. Sender

B. Receiver

C. Protocol

D. Transmission Medium

Question No:257 **(Marks:1)** **Vu-Topper RM**

In _____ transmission mode, start and stop bits are used.

A. Sequential

B. Isochronous

C. Synchronous

D. Asynchronous **Google**

Question No:258 **(Marks:1)** **Vu-Topper RM**

_____ is an Application layer protocol, that is used for accessing the internet.

A. UDP

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Vu Topper RM

B. TCP
C. MAC
D. HTTP **Google**

Question No:259 **(Marks:1)** **Vu-Topper RM**
Suppose a signal is attenuated then the value of decibel will be _____.

A. 0
B. 1
C. Negative **New handout**
D. Positive

Question No:260 **(Marks:1)** **Vu-Topper RM**
_____ encoding scheme is somewhat a combination of the RZ and NRZ-I schemes.

A. AMI
B. Manchester **Google**
C. Differential Manchester
D. Manchester and differential Manchester

Question No:261 **(Marks:1)** **Vu-Topper RM**
The logical connection between the peer layers is _____ connection.

A. Direct **Google**
B. Indirect
C. Physical
D. Tangible

Question No:262 **(Marks:1)** **Vu-Topper RM**
To improve the performance of line coding _____coding was introduced.

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Vu Topper RM

A. 2BIQ
B. MLT-3
C. Block coding **Google**
D. Double coding

Question No:263 **(Marks:1)** **Vu-Topper RM**
Block coding can help in _____at the receiver side.
A. Distortion
B. Error detection **New Handout**
C. Synchronization
D. Synchronization and error detection

Question No:264 **(Marks:1)** **Vu-Topper RM**
In TCP / IP model, the Physical Layer exchanges data in the form of _____.
A. Bits **Google**
B. Frames
C. Packets
D. Segments

Question No:265 **(Marks:1)** **Vu-Topper RM**
DC component issue is solved in _____ coding scheme.
A. Line
B. Vector
C. Bipolar **New handout**
D. Biphase

Question No:266 **(Marks:1)** **Vu-Topper RM**
_____ signals have limited number of discrete values.
A. Digital **Google**
B. Logical

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Vu Topper RM

C. Analogue
D. Continuous

Question No:267 (Marks:1) Vu-Topper RM

In optical fiber a glass or plastic core is surrounded by a _____.

A. Insulator
B. Cladding Google
C. Inner Conductor shield
D. Outer conductor shield

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Vu Topper RM

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CS601 Solved Grand Quiz 2020

File 1

Question No 1

Line Coding scheme is roughly divide into_____ broad categories.

Select Correct Option

- ✓ **5**……(**For More Visit VUStudents.pk)**
- ✓ 4
- ✓ 3
- ✓ 2

Question No 2

Signal travel through fiber optic cable are in the form of_____.

Select Correct Option

- ✓ **Light**……(**For More Visit VUStudents.pk)**
- ✓ Bits
- ✓ Electromagnetic
- ✓ Bytes

Question No 3

Virtual Circuit Identifier is the _____ of packet.

Select Correct Option

- ✓ **Address**……(**For More Visit VUStudents.pk)**
- ✓ Length
- ✓ Size
- ✓ Footer

Question No 4

In scrambling coding scheme the number of pulses replacing the bits will be_____ ?

Select Correct Option

- ✓ **Equal to pulse**……(**For More Visit VUStudents.pk)**
- ✓ Double the pulses
- ✓ Half of the pulses
- ✓ Triple of pulses

Question No 5

Wavelength binds the --------- of a simple sine wave to the propagation speed of the medium.

Select Correct Option

- ✓ Phase
- ✓ **Period or the frequency**……(For More Visit VUStudents.pk)
- ✓ Amplitude
- ✓ Bandwidth

Question No 6

Most commonly used connector for twisted pair cable is_____.

Select Correct Option

- ✓ RJ-11
- ✓ **RJ-45**……(For More Visit VUStudents.pk)
- ✓ RJ-44
- ✓ RJ-52

Question No 7

Token Ring was devised by _____.

Select Correct Option

- ✓ **IBM**……(For More Visit VUStudents.pk)
- ✓ OSI
- ✓ Dell
- ✓ NASA

Question No 8

Multi-mode technology has_____ main types for light propagating.

Select Correct Option

- ✓ Two
- ✓ **Three**……(For More Visit VUStudents.pk)
- ✓ Four
- ✓ Five

Question No 9

Latency is made of _____ components.

Select Correct Option

- ✓ Two
- ✓ Three
- ✓ **Four**……(For More Visit VUStudents.pk)
- ✓ Five

Question No 10

VCI address is _____ address in virtual circuit approach.

Select Correct Option

- ✓ Private
- ✓ Variable
- ✓ **Local**……(For More Visit VUStudents.pk)
- ✓ Global

Question No 11

Among the following cables given below, _____ cable has the highest cost as compared to others.

Select Correct Option

- ✓ UTP
- ✓ STP
- ✓ Coaxial cable
- ✓ **Fiber optical**……(For More Visit VUStudents.pk)

Question No 12

In frequency modulation, the frequency of the oscillator changes according to the _____.

Select Correct Option

- ✓ Output voltage
- ✓ Output frequency
- ✓ **Input voltage**……(For More Visit VUStudents.pk)
- ✓ Output phase

Question No 13

In Virtual Circuit network all packets follow _____ path.

Select Correct Option

- ✓ Individual
- ✓ **Dedicated**……(For More Visit VUStudents.pk)
- ✓ Centralized
- ✓ Alternative

Question No 14

In _____ signal changes its shape or form.

Select Correct Option

- ✓ Thermal noise
- ✓ **Distortion**……(For More Visit VUStudents.pk)
- ✓ Impulse Noise
- ✓ Attenuation

Question No 15

In FDM _____ process is used by the transmitting devices to shift their data to a specific carrier frequency for multiplexing.

Select Correct Option

- ✓ Demodulation
- ✓ Compression
- ✓ Multiplying
- ✓ **Modulation**……(For More Visit VUStudents.pk)

Question No 16

_____ component of data communication governs the overall communication on the network.

Select Correct Option

- ✓ Sender
- ✓ Receiver
- ✓ **Protocol**……(For More Visit VUStudents.pk)
- ✓ Transmission Medium

Question No 17

A fiber-optic cable transmit signals in the form of _____.

Select Correct Option

- ✓ **Light**……(For More Visit VUStudents.pk)
- ✓ Sound
- ✓ Waves
- ✓ None of the given

Question No 18

Simple sine wave can be used to send ----------.

Select Correct Option

- ✓ Bandwidth
- ✓ Time value
- ✓ **Power signal**……(For More Visit VUStudents.pk)
- ✓ Amplitude

Question No 19

In transmission impairments _____ occurs from a signal with a high energy with a very short period of time.

Select Correct Option

- ✓ **Impulse noise**……(For More Visit VUStudents.pk)
- ✓ Induced noise
- ✓ Thermal noise
- ✓ Cross talk

Question No 20

Which of the following is not a characteristic of a sine wave?

Select Correct Option

- ✓ Amplitude
- ✓ **Segmentation**……(For More Visit VUStudents.pk)
- ✓ Phase
- ✓ Frequency

Question No 21

Two stations are connected via a secure link in which messages are encrypted from source to the destination. This encrypted message is called _____.

Select Correct Option

- ✓ Plain text
- ✓ **Cipher text**……(For More Visit VUStudents.pk)
- ✓ Message
- ✓ Protocol

Question No 22

Suppose a signal is attenuated then the value of decibel will be _____.

Select Correct Option

- ✓ 0
- ✓ 1
- ✓ **Negative**……(For More Visit VUStudents.pk)
- ✓ Positive

Question No 23

Virtual-Circuit Networks and datagram networks are the sub categories of _____.

Select Correct Option

- ✓ **Packet-switched networks**……(For More Visit VUStudents.pk)
- ✓ Circuit Switched Networks
- ✓ Both circuit and message switched networks
- ✓ Message switched networks

Question No 24

If 32 bits are sent in two seconds then bitrate for that signal is _____.

Select Correct Option

- ✓ 32 bpd
- ✓ 64 bps
- ✓ 8
- ✓ Hz
- ✓ **16 bps**……(For More Visit VUStudents.pk)

Question No 25

In _____ systems, resources are allocated on demand.

Select Correct Option

- ✓ Frequency switching
- ✓ Line switching
- ✓ Circuit switching
- ✓ **Packet switching**……(For More Visit VUStudents.pk)

Question No 26

Line coding method must eliminate the _____ and provide synchronization between the sender and the receiver.

Select Correct Option

- ✓ **DC component**……(For More Visit VUStudents.pk)
- ✓ Attenuation
- ✓ Noise
- ✓ Distortion

Question No 27

In an analogue hierarchy to carry voice channels a super group has _____ bandwidth.

Select Correct Option

- ✓ **240 kHz**……(For More Visit VUStudents.pk)
- ✓ 240 Hz
- ✓ 120 kHz
- ✓ 60 kHz

Question No 28

Suppose a signal is amplified then the value of decibel will be _____.

Select Correct Option

- ✓ 0
- ✓ 1
- ✓ Negative
- ✓ **Positive**……(For More Visit VUStudents.pk)

Question No 29

TCP/IP was chosen to be the official protocol of internet in _____.

Select Correct Option

- ✓ 1973
- ✓ 1980
- ✓ **1983**……(**For More Visit VUStudents.pk)**
- ✓ 1988

Question No 30

To improve the performance of line coding _____ coding was introduced.

Select Correct Option

- ✓ **Block coding**……(**For More Visit VUStudents.pk)**
- ✓ MLT-3
- ✓ 2BIQ
- ✓ Double coding

THE END

CS601-Data Communication

From: UPDATED BOOK

Solved MCQS for Final terms papers

Solved by JUNAID MALIK and Team



AL-Junaid Institude

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ALL answers are verified if found any mistake then Correct ACCORDINGLY

Question No: 1

Ethernet Address is of----------bytes

- **4**
- **6**
- **8**
- **12**

Question No: 2

In Pure ALOHA, the vulnerable time is ---------- the frame transmission time.

- **Same as**
- **Two times**
- **Three times**
- **Four times**

Question No: 3

_____ was used as a medium in 10 Base-T

- Thick coaxial Cable
- Think coaxial Cable
- Twisted Pair Cable
- Two Mode For Cable

Question No: 4

When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- physical
- transport
- application
- none of the given

Question No: 5

In _____ encoding, we use three levels: positive, zero, and negative.

- polar
- nonpolar
- mmultilevel
- bipolar

Question No: 6

A periodic signal completes one cycle in 0.001 s. What is the frequency?

- 1 Hz
- 100 Hz
- 1 KHz
- 1 MHz

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Question No: 7

There are _____ basic modes for the propagation of light in fiber-optic cables.

- 3
- 4
- 5
- 2

Question No: 8

A parabolic dish antenna is a(n) _____ antenna.

- Omnidirectional
- Bidirectional
- Horn
- Unidirectional

Question No: 9

Zero crossing bandwidth is also called as equivalent noise bandwidth.

- True
- False

Question No: 10

During the transmission, transmitting device produces a high frequency signal which acts as a basis for the transmission. This base signal is called _____.

- Analog signal
- Digital signal Not Confirm
- Modulated signal
- Carrier signal

Question No 11:

There are _____ types of serial transmission:

- 1
- 2
- 3
- 4

Question No 12:

Synchronous transmission have _____.

- a start bit
- a stop bit
- gaps between bytes
- none of the given

Question No 13

Using _____ encoding scheme in digital transmission, we represent 0 by zero voltage level and represent 1 by any positive voltage level.

- Polar
- AMI
- Bipolar
- Unipolar

Question No 14

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_____ is the formula for finding number of bits sent per level.

- Log L
- Log2
- Log2*2
- Log2 L

Question No 15

Which of the following is an example of ITU-T modem standards:?

- T-series
- X-series
- N-series
- V-series

Question No 16

The maximum data rate in the uploading direction is still _____.

- 26.6 Kbps
- 33.6 Kbps
- 36.6 Kbps
- 46.6 Kbps

Question No 16

In _____ each station is forced to send a frame only at beginning of time slot

- Pure ALOHA
- Slotted ALOHA
- Fragmented ALOHA
- None of the given

Question 17

In _____ each station sends a frame whenever it has a frame to send

- Pure ALOHA
- Slotted ALOHA
- Fragmented ALOHA
- None of the given

Question No 18

The data rate of a T-1 line is _____.

- 1.544 Gbps
- 2.544 Mbps
- 1.544 Kbps
- 1.544 Mbps

Question 19

Circuit switched networks have _____ efficiency but _____ delay compared to the packet switched networks.

- high, minimal

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- high, high
- low, minimal

Question No 20

Category 5 UTP cable is used for data transmission of upto_____.

- 100 Mbps
- 200 Mbps
- 250 Mbps
- 400 Mbps

Question No 21

All of popular Fiber optic connectors are _____ shaped.

- Conical
- Barrel
- Circular
- Rectangular

Question No 22

SONET stands for _____

- synchronous optical network
- synchronous operational network
- stream optical network
- shell operational network

Question No 23

Fast Ethernet has a data rate of _____Mbps.

- 10
- 100
- 1000
- 10,000

Question No 24

The VLF and LF bands use _____ propagation for communications.

- Ground
- Sky
- Line of sight
- Space

Question No 25

In Bit-oriented framing, _____ bit pattern is used as a flag to define beginning and end of a frame.

- $(11111111)_2$
- $(10000001)_2$
- Single
- $(01111110)_2$

Question No 26

Traditionally, _____ protocols have been defined for the data-link layer to deal with flow and error control.

- Two
- Three

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- Five
- Four

Question No 27
Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- Single
- Multi
- Single and Multi
- none of the given

Question N0 28
Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- Interleaving
- Addition
- Substraction
- None of the given

Question No 29
_____ takes data from one high speed line and breaks it into portions.

- Multiplexing
- Inverse multiplexing
- Inverse subtraction
- Inverse addition

Question No 30
For Carrier Sense Multiple Access/Collision Detection (CSMA/CD) we need a restriction on the _____

- Collision Size
- Signal Size
- Frame Size
- Station Size

Question No 31:
In Y-MODEM Multiple files can be sent simultaneously

- True
- False

Question No 32
At the data-link layer, _____ protocol is designed to handle both flow and error control, but communication is one frame at a time.

- Simple
- Go-Back-N
- Selective-Repeat
- **Stop-and-Wait**

Question No 33

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The PPP protocol uses _____, which is responsible for establishing, maintaining, configuring, and terminating links.

- Internet Protocol Control Protocol (IPCP)
- Challenge Handshake Authentication Protocol (CHAP)
- Network Control Protocols (NCPs)
- **Link Control Protocol (LCP)**

Question No 34

Aloha, CSMA/CD and CSMA/CA are part of _____.

Controlled Access protocol
Channelization protocol
Mutual access protocol
Random Access protocol

Question No 35

Which of the following is an example of ITU-T modem standards:

- T-series
- X-series
- N-series
- V-series

Question No 36

The maximum data rate in the uploading direction is still _____.

- 26.6 Kbps
- 33.6 Kbps
- 36.6 Kbps
- 46.6 Kbps

Question No 37

Category 5 UTP cable is used for data transmission of upto_____.

- 100 Mbps
- 200 Mbps
- 250 Mbps
- 400 Mbps

Question No 38

ALOHA the earliest random access method was developed in early_____.

1950s
1960s
1980s
1970s

Question No 39

In block coding, we divide our message into blocks, each of ____ bits; and add _____ redundant bits to each block to make the codewords of ____ bit length.

m, r, c

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n, k, r
n, r, k
k, r, n

Question No 40

All of popular Fiber optic connectors are _____ shaped.

- Conical
- Barrel
- Circular
- Rectangular

Question No 41

MAC stand for ____

- Media Access Controller
- Main Access Control
- Mandatory Access Control
- Media Access Control

Question No 42

Which one of the following is a Random-Access protocol

- CDMA/CA
- ALOHA
- CDMA/CD
- TDMA

Question No 43

The VLF and LF bands use _____ propagation for communications.

- Ground
- Sky
- Line of sight
- Space

Question No 44

Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- Single
- Multi
- Single and Multi
- none of the given

Question No 45

Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- Interleaving
- Addition
- Subtraction
- None of the given

Question No 46

CDMA stands for _____

- Carrier Data Multiple Access
- Code Division Multiple Access
- Code Data Multiple Access
- Carrier Division Multiple Access

Question No 47

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In Ethernet, the source address field in the MAC frame is the _____ address.

- Sender's logical
- Previous station's physical
- Next destination's physical
- Sender's service port

Question No 48

_____ takes data from one high speed line and breaks it into portions.

- Multiplexing
- Inverse multiplexing
- Inverse subtraction
- Inverse addition

Question No 49

A traditional telephone line has a bandwidth of _____.

- 2000Hz
- 4000 Hz
- 2000 MHz
- 4000 MHz

Question No 50

To detect five errors, the Hamming distance between each pair of codewords should be at least_____.

- 4
- 5
- 11
- 6

Question No 51

For FEC using XOR operation, we divide a packet into N chunks, and need to send _____ chunks to the receiver side.

- N
- 2N
- (N+1)/2
- N+1

Question No 52

If the ASCII character H is sent and the character I is received, what type of error is this?

- Single-bit
- Multiple-bit
- Burst
- Recoverable

Question No 53

At the CRC generator, _____ added to the data unit after the division process

- 0s are
- 1s are
- The polynomial
- The CRC remainder is

Question No 54

Error control in the data link layer is based on _____

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- automatic repeat request
- automatic repeat acknowledgment
- automatic send acknowledgment

Question No 55
In a technique called, compounding High-and-Low Resolution Packets, the low-resolution section in the first packet is _____.

- CRC Not Sure
- Parity code
- Empty

Question No 56
In line discipline the initiator first transmits a frame called an _____

- Enquiry
- Acknowledgment
- NAK
- Reques

Question No 57
Primary device uses _____ to receive transmission from the secondary devices.

- ACK Not Sure
- ENQ
- POLL

Question N0 58
Token Bus has no commercial application in data communications

- True
- False

Question No 59
HDLC is an acronym for _____.

- High-duplex line communication
- High-level data link control
- Half-duplex digital link combination
- Host double-level circuit

Question No 59
The BNC-T connector is a T-shaped device with _____ ports

- Three
- Two
- Four
- Five

Question No 60
Each station in the Token Ring regenerates the frame.

- True
- False

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Question No 61

Repeater works on _____ layer.

- Data Link
- Physical
- Network
- Application

Question No 62

Trunks are transmission media such as _____ that handle the telephone to the nearest end office.

- Satellite links
- Twisted-pair & Fiber-optic
- Twisted-pair
- Fiber-optic

Question No 63

At the data-link layer, _____ protocol is designed to handle both flow and error control, but communication is one frame at a time.

- Simple
- Go-Back-N
- Selective-Repeat
- **Stop-and-Wait**

Question No 64

The PPP protocol uses _____, which is responsible for establishing, maintaining, configuring, and terminating links.

- Internet Protocol Control Protocol (IPCP)
- Challenge Handshake Authentication Protocol (CHAP)
- Network Control Protocols (NCPs)
- **Link Control Protocol (LCP)**

Question No 65

The original Ethernet technology with the data rate of 10 Mbps is called _____?

- Standard Ethernet
- Fast Ethernet
- Gigabit Ethernet
- 10 Gigabit Ethernet

Question No 66

Normally the value of Kmax in pure ALOHA is _____.

- 10
- 15
- 25
- 30

Question No 67

Which one of the following is not a Channelization Protocol?

- CSMA
- CDMA

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- FDMA
- TDMA

Question No 68

In CSMA/CA _____ is the amount of time divided into slots.

- Contention Window
- Interframe Window
- Fragmented Window
- Collided Window

Question No 69

Aloha, CSMA/CD and CSMA/CA are part of _____.

Controlled Access protocol
Channelization protocol
Mutual access protocol
Random Access protocol

Question No 70

ALOHA the earliest random access method was developed in early_____.

- 1950s
- 1960s
- 1980s
- 1970s

Question No 71

For FEC using XOR operation, we divide a packet into N chunks, and need to send _____ chunks to the receiver side.

N
2N
(N+1)/2
N+1

Question No 71

The _____ layer is responsible for the creation and delivery of a frame to another node, along the link.

- Application
- Network
- Physical
- Data-link

Question No 72

IP addresses are the identifiers at the _____ layer.

- Physical
- Data-link
- Transport
- Network

Question No 73

Each host or each interface of a router is assigned _____ address.

- A multicast
- A broadcast
- Both multicast or broadcast

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- A unicast

Question No 74
The ARP protocol is one of the auxiliary protocols defined in the _____ layer, which maps an IP address to a logical-link address.

Physical
Data-link
Transport
Network

Question No 75
Following are the examples of connecting devices EXCEPT _____ .

- Link Layer Switches
- Hub
- Routers
- Wire

Question No 76
_____ eliminates collision and connect heterogeneous devices.

- Hub
- Repeater
- Bridge
- Switch

Question No 77

_____ creates looping problem in learning switch.

- Unicast
- Multicast
- None of the Given
- Broadcast

Question No 78
The term FTTC stands for _____ .

Front Technology Terminal Connection

Free Technology Transmission Connection

Fiber Terminal Transmission Commission

Fiber to the Curb

Question No 79
Multiple-access Protocol is divided into_____.

Two categories
Four categories
Five categories
Three categories

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Question No 80
The original Ethernet technology with the data rate of 10 Mbps is called _____ Ethernet.

Fast
Gigabit
10 Gigabit
Standard

Question No 81
CSMA/CD is not used in _____ Ethernet.
Standard
Fast
Gigabit
10 Gigabit

Question No 82
The amplitude of a digital signal depends upon the_____ to represent a bit.
Phase
Wavelength
Bandwidth
Voltage

Question No 83
In IEEE 802.11, a station with _____mobility can move from one BSS to another, but the movement is confined inside one ESS.
None of the choices are correct
No-transition
ESS-transition
BSS-transition

Question No 84
In IEEE 802.11, communication between two stations in two different BSSs usually occurs via two _____.
BSSs
ESSs
None of the given
Aps

Question No 89
A property of a signal where it is being received by receiver after reflection from different intermediate objects (Building, iron polls, walls) is called _____

- Attenuation
- Interference
- Error
- Multipath Propagation

Question No 90
_____ medium is used in wireless LANs for transportation of data.

Copper pair cable

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Optical fiber cable
Coaxial cable
Air

Question No 91
In context of control signaling network, what does STP stand for _____

- Shielded twisted pair
- Signaling transmission point
- Signal transportation procedure
- **Signal transfer point**

Question No 92
POP stands for _____

- Presentation of points
- Points of points
- Points of packets
- **Points of Presence**

Question No 93
What does LATA stand for _____

- Local Area Transmission Arena
- Local-Access Transit Access
- Local-Areas Transport Areas
- **Local-Access Transport Areas**

Question No 94
Unipolar encoding scheme is not supported over the medium having _____.

- The capability of handling DC component
- Low speed
- High speed
- No capability of handling DC component

Question No 95
The amplitude of a digital signal depends upon the_____ to represent a bit.

- Phase
- Wavelength
- Bandwidth
- Voltage

Question No 96
Transmission Control Protocol is a(n) _____ layer protocol

- Application
- Network
- Session
- Transport

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Question No 97

In _____ each station is allotted a time slot during which it can send data

- NDMA
- CDMA
- TDMA
- FDMA

Question No 98

In _____ collisions are avoided by deferring transmission even if the channel is idle

- The Slotted Frame
- The Deployment Frame
- The Contention Window
- The Interframe Space

Question No 99

In the context of Ethernet Implementations, maximum medium length of 10 Base-F was _____ meters.

- 500
- 1000
- 2000
- 150

Question No 100

Collisions in CSMA/CA are avoided through _____

- The Interframe Space
- The Contention Window
- Acknowledgments
- All of the given

1. The extra bits added with the original data for error detection/correction are called
   - Process IDs
   - Redundant bits
   - Fault bits
   - Port Number
2. _____are used to exchange session management and control between connected devices.
   - U-frames
   - N-frames
   - S-frames
   - I-frames
3. The message 1110 sent by source is received by a destination as 1011.This is ____types of err.
   - Hamming
   - Single-Bit
   - Uni-Bit
   - Brust
4. In Block code we divide our message into blocks of K bits called as_____
   - Password
   - Code word

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- Data words
- Cross words

5. DLC in Data Link Layer stand for_____
   - Demand Link coordination
   - Data Line Code
   - Data Link Control
   - Divide Line Communication
6. _____is responsible for governing node to node Communication.
   - Data Link Layer
   - Session Layer
   - Presentation Layer
   - Application Layer
7. Go-Back-N protocol is one of the _____Layer protocol, which is used to control the flow of data during the transmission
   - Presentation
   - Network
   - Data Link
   - Physical
8. Error correction in more _____than the erro detection.
   - Useless
   - Informal
   - Difficult
   - Easy
9. Stop-and-Wait protocol is used for____
   - Flow control Only
   - Neither flow nor error control
   - Both flow and error control
10. ____is not a function of Data Link control
    - Framing
    - Error Control
    - Flow Control
    - Modulation
11. Payload filed of the PPP frame is of variables Size and it can carry maximum Data up to____
    - 10 Bytes
    - 500 Bytes
    - 100 Bytes
    - 1500 Bytes
12. In Block Coding Scheme, number of Code word is always _____data wods.
    - Equal to
    - same as
    - Greater Then
    - Less then

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13. High-Level Data Link Control(HDLC) defines___types of frames to deal with the transfer modes.
    - Three
    - Two
    - Four
    - Six
14. Congestion control is a feature of _____layer(S)
    - Transport
    - All Mentioned
    - Network
    - Data Link
15. Error detection and correction are the services provided by _____Layer.
    - Physical Layer
    - Application Layer
    - Data Link Layer
    - Session Layer
16. IN Linear Block codes,___of two valid code words creates another valid code word.
    - AND
    - OR
    - XOR
    - NOR
17. Stop-and-Wait protocol is used for_____
    - Bothe flow and error control
    - Error control Only
    - Flow control Only
    - Nether flow nor error control
18. CHAP is an Authentication protocol, which uses_____process to authenticate user information.
    - Four way
    - Three Way
    - Two Way
    - Five way
19. Data link layer is divided into ____sub Layer
    - Seven
    - Two
    - Five
    - Three
20. If we need to correct a single error in an 8-bit data unit, we need to consider_____possible error location.
    - 16
    - 2
    - 8
    - 4

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21. ____is not a function of Data Link Control.
    - Framing
    - Modulation
    - Flow control
    - Error control
22. The _____ is the number of single elements sent per unit time.
    - Single rate
    - Period
    - Bit rate
    - Data rate
23. In ASK, both_____and_____remain constant.
    - Amplitude, Frequency
    - Amplitude, phase
    - **Frequency, Phase**
    - Amplitude, Samples
24. In an analog hierarchy to carry voice channels, a group can carry _____voice channels.
    - 60
    - 12
    - **20**
    - 10
25. Which of the following sublyer resolves the contention for theshared media.
    - **MAC**
    - LLC
    - Physical
    - None of the given.
26. What is the period of a Sine wave having frequency of 5 Hz?
    - **0.2**
    - 0.1
    - 0.5
    - 0.3
27. In CRC there is no error if the remainder at the receiver is _____.
    - Equal to the remainder at the sender
    - **Zero**
    - Nonzero
    - The quotient at the sender
28. Analog To Analog Conversion Methods include_____.
    - **AM, PM and FM**
    - AM, FSK and PM
    - AM, PM and QAM
    - None of the given
29. Signals travel through fiber optic cable are in the form of _____.

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- **Light**
- Bits
- Electromagnetic
- Bytes

30. If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.
    - **≠ 0**
    - = 0
    - ≠ 1
    - = 1
31. The flag in PPP is a byte that needs to be_____whenever it appears in the data section of the frame.
    - Duplicated
    - Blocked
    - Cleaned
    - **Escaped**
32. _____is normally used where speed is priority in datatransfer.
    - **Serial data transmission**
    - Hybrid data transmission
    - Parallel data transmission
    - Both parallel and serial data transmission
33. Baud rate is greater than or equal to the bit rate.
    - True
    - **False**
34. _____is an Authentication Protocol, which is used by the PPPto authenticate passwords.
    - CHAP
    - **PAP**
    - LCP
    - ICMP
35. In Pure ALOHA, the vulnerable time is_____the frame transmission time.
    - Same as
    - **Two times**
    - Three times
    - Four times
36. A broadcast signal is received by the orbiting satellites whichrebroadcasts_.
    - to the resender
    - to the sender
    - to the atmosphere
    - **none of the given**
37. In TCP/IP protocol suite, the process of adding header at eachlayer on sending side is known as_____.

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- Encapulation
- De-encapulation
- **Packetizing**
- Framing

38. By using_____system, change in the file contentsduring file transmission can be avoided.
    - Routing
    - Flow Control
    - **Error Detection and Correction**
    - Congestion Control
39. Which of the following consist of just one redundant bit per dataunit?
    - Two dimensional Parity check.
    - CRC
    - **Simple Parity Check**
    - Checksum
40. If duration of noise is decreased during a transmission over noisychannel, fixed data rate of the channel will cause _____number of bits being impacted by the noise.
    - Constant
    - **More**
    - Less
    - Zero
41. The extra bits added with the original data for errordetection/correction are called_____.
    - Fault bits
    - Port numbers
    - **Redundant bits**
    - Process IDs
42. Flow control is needed to prevent_____.
    - Bit errors
    - Overflow of the sender buffer
    - **Overflow of the receiver buffer**
    - Collision between sender and receiver
43. The inversion of the level represents a 1 bit in_____encoding
    - **NRZ-I**
    - NRZ-L
    - RZ
    - Manchester
44. The term_____means that only one bit of a given data unit ischanged from 1 to 0 or from 0 to 1.
    - Packet Error
    - Burst Error
    - **Single Bit Error**
    - Character Error

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45. A sine wave is defined by_____characteristics.
    - 2
    - **3**
    - 4
    - 5

46. Quadrature Amplitude Modulation (QAM) is the combination of _____and_____.
    - **FSK, PSK**
    - PSK, FSK
    - ASK, PSK
    - ASK, FSK

47. If we need to correct a single error in an 8-bit data unit, we needto consider _____possible error locations.
    - **16**
    - 2
    - 4
    - 8

48. To calculate the data rate for noisy channel_____formula is used.
    - **Shannon**
    - Nyquist
    - Propagation
    - Greedy

49. GO-BACK-N protocol is one of the_____layer protocols, which is used to control the flow of data during the transmission.
    - Physical
    - **Network**
    - Presentation
    - Data link

50. A_____modem is used to connect two DTEs directly.
    - **'NULL**
    - Cable
    - DSL
    - None of the given

51. Time division multiplexing is used in_____systems.
    - Analog
    - Hybrid
    - **Digital**
    - Automated

52. In OSI model headers are added at layer_____.
    - 1,2,3 only
    - 6,5,7 only
    - 5,4,3 only

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- **6,5,4,3,2 only**

53. Line Configuration refers to the way two or more devices attachto a_____.
    - Path
    - Circuit
    - **Link**
    - Router
54. A sine wave is_____.
    - periodic and discrete
    - aperiodic and discrete
    - **periodic and continuous**
    - aperiodic and continuous
55. The logical connection between the peer layers is _____connection.
    - Physical
    - Direct
    - Indirect
    - **Tengible**
56. What is the frequency of a sine wave if it completes one cycle in2 seconds?
    - **0.5**
    - 0.6
    - 0.3
    - 0.2
57. In Synchronous TDM, Time slots are not same in number asinput devices.
    - True
    - **False**
58. _____category of coaxial cable is used for thin Ethernet.
    - **RG-58**
    - RG-59
    - RG-1
    - RG-47
59. Radio wave transmission utilizes_____different types of propagation.
    - Two
    - Three
    - Four
    - **Five**
60. BSC supports_____transmission using _____ flow control.
    - Full-duplex, Stop and wait ARQ
    - Half-duplex, Selective reject ARQ
    - Full-duplex, Selective reject ARQ
    - **Half-duplex, Stop and wait ARQ**
61. In selective-reject ARQ, only the specific damaged or lost frameis_.
    - **Retransmitted**
    - Forwarded
    - Selected

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- Rejected

62. Error detection and correction are the services provided by _____layer.
    - **Data link layer**
    - Application layer
    - Physical layer
    - Session layer
63. The___generates the data and passes it along withany control information to a____.
    - **DTE, DCE**
    - DCE, DTE
    - DTE, DTE
    - DCE, DCE

64. Analog refers to something that is continuous in_____.
    - **Time**
    - Space
    - Frequency
    - None of the given
65. Time domain shows changes in_____.
    - time w.r.t signal amplitude
    - **signal amplitude w.r.t time**
    - time
    - All of the given
66. Mr. Asif while sitting in Lahore is talking with his friend in Dubaithrough Skype is an example of_____.
    - Local Area Network
    - **Metropolitan Area Network**
    - Wide Area Network
    - Home Based Network
67. Which level of the TCP/IP reference model routesdata/information across a network channel?
    - Application Layer
    - Data Link Layer
    - Transport Layer
    - **Network Layer**
68. There are_____types of serial transmission.
    - 3
    - 4
    - **2**
    - None of the given
69. Latency is made of_____components.
    - **Two**
    - Three

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- Four
- Five

70. Like 10 Base 5, 10 Base 2 is a_____topology LAN.
    - Ring
    - Mesh
    - Star
    - **Bus**
71. _____is the rate of change with respect to time.
    a. Voltage
    b. Time
    c. Frequency
    d. Amplitude
72. Two or more computers connected so that they can communicate with each other and share information is called a _____.
    - satellite
    - protocol
    - broadcast
    - **network**
73. Which error detection method consists of a parity bit for each unit aswell as an entire data unit of parity bits?
    - Checksum
    - Cyclic Redundancy Check (CRC)
    - **Longitudinal Red Check (LRC)**
    - Vertical Redundancy Check (VRC)
74. Central Hub in a Tree is an_____.
    - **Active hub**
    - passive hub
75. Time domain plot show changes in signal phase with respect to time.
    - true
    - **false**
76. _____is an Authentication Protocol, which uses two-step processto authenticate user information.
    - CHAP
    - LCP
    - **PAP**
    - ICMP
77. CHAP is an Authentication Protocol, which uses_____process to authenticate user information.
    - Two-way
    - **Three-way**
    - Four-way
    - Five-way

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78. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____ .
    - Virtual LANs
    - **Two adjacent nodes**
    - Ethernet links
    - Source and destination PCs
79. Encoding digital data into digital signals is called _____ .
    - Analog-to-Digital Conversion
    - **Digital-to-Digital Conversion**
    - Digital-to-Analog Conversion
    - None of the given
80. _____encoding is almost obsolete today
    - Bipolar
    - **Unipolar**
    - Polar
    - None of the given
81. The Internet is_____.
    - software for sending e-mail around the world
    - a government-owned agency that links computers
    - **a global network of computers networks**
    - a specialised form of local area network
82. PSK is susceptible to the noise degradation.
    - True
    - **False**
83. Low pass channel has_____bandwidth between two stations.
    - **Dedicated**
    - Shared
    - Multiplexed
    - Infinite
84. In ASK, Noise usually affects the_____.
    - **Amplitude**
    - Phase
    - Sample
    - Frequency
85. The flag in PPP is a byte that needs to be_____whenever it appears in the data section of the frame.
    - Duplicated
    - Blocked
    - Cleaned
    - **Escaped**
86. Which of the following is not a characteristic of a sine wave?
    - Amplitude
    - **Segmentation**
    - Phase

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- Frequency

87. In statistical time division multiplexing, number of slots in frame areless than___.
    - Output data rate
    - **Input lines**
    - Input frequency
    - Multiplexed T lines
88. If a digital signal has "L" number of levels._____is the numberof bits required to represent each level.
    - **Log L**
    - Log Base 2 L
    - L Square
    - Log(2*L)
89. _____is responsible for governing node to node communication.
    - Application Layer
    - Session Layer
    - **Data Link layer**
    - Presentation Layer
90. The original Ethernet technology with the data rate of 10 Mbps is called_____ ?
    - **Standard Ethernet**
    - Fast Ethernet
    - Gigabit Ethernet
    - 10 Gigabit Ethernet
91. What is the period of a Sine wave having frequency of 2 Hz?
    - 0.2
    - 0.1
    - **0.5**
    - 0.3
92. In line discipline after the data transmission, the sending system finishes with an _____
    - **EOT**
    - EKT
    - ENT
    - ESP
93. __are used for Multi cas communication, such as radio and Television.
    - Microwaves
    - Radio Waves
    - Light waves
    - Infrared Waves

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CS601 Finalterm Mcqs

Updated handouts 2022

#Final-Term

ORANGE MONKEY TEAM

Important NOTE:-

Maybe toppers are successful in school or college carrier but backbenchers are successful in their life because toppers run according to books while backbenchers don't follow rules and regulation that is why backbenchers are successful. For life, there are no books and another reason why toppers can't succeed because they fear failure and don't try anything new. Backbenchers don't fear failure as they have faced the failure in their school or college carrier so that is the reason they try new things and at last gain success.

As Abdul Kalam nicely quoted, "The best brains of the nation may be found on the last benches of the classroom"

Translation into Urdu:

ہوسکتا ہے کہ ٹاپرز اسکول یا کالج کیریئر میں کامیاب ہوں لیکن بیک بینچر اپنی زندگی میں کامیاب ہوتے ہیں کیونکہ ٹاپر کتابوں کے مطابق چلتے ہیں جب کہ بیک بینچر قواعد و ضوابط پر عمل نہیں کرتے اسی وجہ سے بیک بینچر کامیاب ہوتے ہیں۔ زندگی کے لیے، کوئی کتابیں نہیں ہیں اور ایک اور وجہ ہے کہ ٹاپرز کامیاب نہیں ہو پاتے کیونکہ وہ ناکامی سے ڈرتے ہیں اور کچھ نیا کرنے کی کوشش نہیں کرتے۔ بیک بینچر ناکامی سے نہیں ڈرتے کیونکہ انہوں نے اپنے اسکول یا کالج کیریئر میں ناکامی کا سامنا کیا ہے یہی وجہ ہے کہ وہ نئی چیزیں آزماتے ہیں اور آخر کار کامیابی حاصل کرتے ہیں۔

جیسا کہ عبدالکلام نے اچھی طرح سے نقل کیا ہے، "قوم کے بہترین دماغ کلاس روم کے آخری بینچوں پر مل سکتے ہیں"۔



1. **In _____ each station is allocated a time slot during which it can send data**

   TDMA…….confirm

2. **PAP and CHAP are used by __ as Authentication Protocols.**

   PPP……confirm

3. **In each character protocol each character of frame is encoded using ____ coding system .**

   Bit-oreinted

4. **IN MAC, when nodes use a multi-point or broadcast link, we need a _____ to coordinate access to the link.**

   Multiple-access protocol/……confirm

5. **The orginal Etherrnet technology with the data rate of 10 MBps is called_____?**

   Standard Ethernet….confirm

6. **_____ uses fiber-optic cable**

10base-F….confirm

7. **One of the most common protocols for point-to-point access is _____.**

PPP……confirm

8. **_____ is an Authentication Protocol, which uses two-step process to authenticate user information.**

PAP……confirm

9. **If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise**

More…..confirm

10. **For carrier sense Multiple Access/Collision Detection (CSMA/CD), we need a restriction on the**

Collision size….confirm

11. **Stop-and-Wait protocol is used for _____.**

Both flow and error control……confirm

12. **In hexadecimal notation of Ethernet address, each byte is separated by _____ symbol.**

Colon….confirm

13. **In a linear block code, the _____ of any two valid codewords creates another valid codeword.**

14.

XOR…..confirm

15. **In the _____ method, the stations in a network are organized in a logical ring.**

Token-passing….confirm

16. **Which one of the following is not a Channelization Protocol?**

CSMA……confirm

17. **In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.**

28….confirm

18. **If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations**

16…..confirm

19. **In _____ each station sends a frame whenever it has a frame to send.**

Slotted ALoHA…..confirm

20. **_____ is the process of converting digital data to digital signals.**

Line coding…..confirm

21. **In case of higher data rate, the number of impacted bits will be _____.**

Higher

22. **In _ protocol, the sender sends one frame at a time and wants for an acknowledgment before sending the next one.**

Stop-and-wait

23. **In block coding we divide our message into blocks of K bits called as _____.**

Data words….confirm

24. **CDMA stands for _____.**

Code division Multiple Access…..confirm

25. **____ is not a function of data link control.**

Modulation…..confirm

26. **CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.**

Three-way……confirm from net

27. In the context of Ethernet address, the source address is always a _____ address.

Unicast…confirm

28. In the context of Ethernet address, the destination address is always a _____ address.

Unicast, multicast, broadcast….confirm

29. _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

Gigabit Ethernet….confirm

30. Fast Ethernet has a data rate of ____ Mbps.

100…..confirm

31. In random access method, when two or more than two nodes transmit at the same time when

All the nodes in collision survives

32. Data link layer is divided into _____ sub layers

Two…..confirm

33. If the harming distance between sent and received code word is _____ then it shows that received data is corrupted.

(Is not equal to)0….confirm

34. In order to find hamming distance between two pair of words, _____ logical operation is used.

XOR….confirm

35. Ethernet address is of ___ bytes

6….confirm

36. In _____ a station monitors the medium after it sends a frame to see if the transmission was successful.

CSMA/CD……confirm

37. For carrier sense Multiple Access/Collision Detection (CSMA/CD), we need a restriction on the _____.

Frame size…confirm

38. Ethernet address is of _____ bytes

6

39. What was the main drawback in the aloha random access method

Redundancy in data

40. In telephone, network POP stands for

Point-of presence

41. Possession of token gives the station the right to _____.

Send the data

42. In Ethernet, the source address field in the MAC frame is the _ address

Previous station physical

43. Normally the value of Kmax in pure aloha is

15

44. _____ uses thin coaxial cable.

10 base 5

45. MAC stands for ____

Media access control

46. In the context of Ethernet implementations maximum medium length of 10 base-F

2000

47. Transmission technology based on Ethernet provides a data rate of 1 billion bits per second.

Standard Ethernet

48. Works with topologies in which one device is designated as a primary station and the other devices are secondary stations

None of the given

49. MAC address is of _____.

48 bits

50. The type of aloha which improves the efficiency of pure aloha is.

Slotted aloha

51. A personal computer or workstation on an Ethernet network must have _____ card

NIC

52. In which controlled access method all data exchange must be made through primary device even when the ultimate destination is a secondary device

Polling

53. In _ each band is reserved for a specific station and it belongs to the station all the time

FDMA

54. In pure aloha the vulnerable time is ___ the frame transmission time

Two times

55. DSl stands for _____.

Digital subscriber line

56. In the context of Ethernet address, the source address is always a _____ address

Multicast

57. The original Ethernet technology with the data rate of 10 Mbps is called

Standard ethernet

58. Which of the following is a correct controlled access method

All options

59. When we represent the data in CDMA if a station Is idle then it sends

0

60. In telephone, network POP stands for _____.

Point of presence

61. What was the main drawback in the aloha random access method

Redundancy data rate

62. _transmission technology based on Ethernet provide a data rrate of 1 billion bits per second

Gigabit Ethernet

63. In which controlled access method all data exchanges must be made through a primary device even when the ultimate destination is a secondary device.

Polling

64. In telephone, network POP stands for

Point of presence

65. Mac address is of _____

48 bits

66. In _____ collision are avoided by deferring transmission even if the channel is idle

The interframe space

67. POTS stand for _?

Plain old telephone system……confirm

68. Normally the value of Kmax in pure aloha is

15

69. In Ethernet frame both destination and sender addresses are of length

6 byte

70. In _____ each band is reserved for a specific station and it belongs to the station all the time

FDMA

71. The original Ethernet technology with a data rate of 10MBps is called

Standard Ethernet

72. The _ method has the highest chance of collision because two or more stations may find the line idle and send their frames immediately

1 persistent method

73. IN allocated a time slot during which it can send data each station is

TDMA

74. In which controlled access method al data exchanges must be made through primary device even when the ultimate destination is a secondary device

Polling

75. CDMA stands for

Code data multiply access

76. Works with topologies in which one device is designated as a primary station and the other device are secondary stations

Polling

77. In Ethernet, the source address field in the MAC frame is the address

Next destination physical

1. VCI address is _____ address in virtual circuit approach.

1. Private

2. Variable

3. Local

4. Global

2. Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching

1. true

2. false

3. In the _____ method, the stations in a network are orgamized in a logical ring.

1. Token-passing

2. Polling

3. Reservation

4. None of the given

4. Like 10 Base 5, 10 Base 2 is a _____ topology LAN.

1. Ring

2. Mesh

3. Star

4. Bus

5. In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

1. Same as

2. Three times

3. Two times

4. Four times

6. The transmission medium that carries the message is referred to as the _____.

1. send and receive device

2. communication channel

3. protocol

4. gateways

7. Analog signals are refers to be _____

1. Continuous

2. Discrete

3. Periodic

4. Aperiodic

8. There are _____ types of serial transmission.

1. 3

2. 4

3. 2

4. None of the given

9. To calculate the data rate for noisy channel _____ formula is used.

1. Shannon

2. Nyquist

3. Propagation

4. Greedy

10. There are three types of Hubs that exist. Which of the following options correctly describes these three?

1. Passive, dormant, special

2. Active , dormant , passive

3. Passive, Active, Turbo

4. Passive, Active, Intelligent

11. _____ is the rate of change with respect to time.

1. Voltage

2. Time

3. Frequency

4. Amplitude

12. To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

1. Physical

2. Network

3. Presentation

4. Data link

13. What is the frequency of a sine wave if it completes one cycle in 2 seconds?

1. 0.5

2. 0.6

3. 0.3

4. 0.2

14. _____ relatively measures the strength of two signals.

1. Signal rate

2. Bit rate

3. Decibel

4. Pulse Rate

15. Central Hub in a Tree is an _____.

1. Active hub

2. passive hub

16. At the CRC generator, _____ added to the data unit before the divisional process.

1. 0s are

2. 1s are

3. a polynomial is

4. a CRC remainder is

17. A broadcast signal is received by the orbiting satellites which rebroadcasts _____.

1. to the resender
2. to the sender
3. to the atmosphere
4. **none of the given**

18. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

1. Duplicated
2. Blocked
3. Cleaned
4. **Escaped**

19. In _____, a signal is directed straight from antenna to antenna.

1. **Line of sight propagation**
2. Ground propagation
3. Space propagation
4. Tropospheric propagation

20. Which of the following consist of just one redundant bit per data unit?

1. Two dimentional Parity check.

2. CRC

3. Simple Parity Check

4. Checksum

21. The term _____means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

1. Packet Error

2. Burst Error

3. Single Bit Error

4. Character Error

22. Flow control is needed to prevent _____.

1. Bit errors

2. Overflow of the sender buffer

3. Overflow of the receiver buffer

4. Collision between sender and receiver

23. Transmission Control Protocol is a(n) _____ layer protocol.

1. Transport

2. Application

3. Session

4. Network

24. A fiber -optic cable transmit signals in the form of _____.

1. Light

2. Sound

3. Wave

4. None of the given

25. Possession of TOKEN gives the station the right to _____.

1. Modify the data

2. Send the data

3. Delete the data

4. Receive the data

26. The inversion of the level at 1 bit is called as _____.

1. NRZ-L

2. NRZ-I

3. RZ

4. None of the given.

27. What was the main draw back in ALOHA Random-Access method?

1. Redundancy in Data

2. Potential Collision

3. Inconsistent Data rate

4. All of the given

28. Data is transmitted using light through a _____ cable.

1. twisted pair

2. fiber-optic

3. coaxial

4. microwave

29. In _____, each station sends a frame whenever it has a frame to send.

1. Slotted ALOHA

2. Fragmented ALOHA

3. Pure ALOHA

4. None of the given

30. In OSI model headers are added at layer _____.

1. 1,2,3 only

2. 6,5,7 only

3. 5,4,3 only

4. 6,5,4,3,2 only

31. Is there any difference between Data communication and telecommunication are network?

1. Yes

2. No

32. _____ is an Authentication Protocol, which is used by the PPP to authenticate passwords.

1. CHAP

2. PAP

3. LCP

4. ICMP

33. Which level of the TCP/IP reference model routes data/information across a network channel?

1. Application Layer

2. Data Link Layer

3. Transport Layer

4. Network Layer

34. In ASK, both _____ and _____ remain constant.

1. Amplitude, Frequency

2. Amplitude, phase

3. Frequency, Phase

4. Amplitude, Samples

35. Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

1. Checksum

2. Cyclic Redundancy Check (CRC)

3. Longitudinal Red Check (LRC)

4. Vertical Redundancy Check (VRC)

36. Baud rate is greater than or equal to the bit rate.

1. True

2. False

37. The most common type of connector used by coaxial cable is _____.

1. BNC

2. RJ-45

3. RJ-11

4. RJ-57

38. In even parity check code, the value of syndrome is _____ if the number of 1s is even.

1. 1

2. 2

3. 0

4. 4

39. What is the period of a Sine wave having frequency of 10 Hz?

1. 0.2

2. 0.1

3. 0.5

4. 0.3

40. In _____, both peak amplitude and frequency remains constant as the phase changes.

1. PSK

2. QAM

3. Both PSK & QAM

4. None of the given

41. There are _____types of guided media.

1. 2

2. 3

3. 4

4. 5

42. _____ is responsible for governing node to node communication.

1. Application Layer

2. Session Layer

3. Data Link layer

4. Presentation Layer

43. TROPOSHERE is the layer of atmosphere above the troposhere but below space

1. True

2. False

44. Terminal, microprocessor, computer, printer or any other device that generates or consumes digital data is known as _____

1. DCE

2. DTE

3. DCE & DTE

4. None of the given

45. Normally the value of Kmax in pure ALOHA is _____.

1. 25

2. 10

3. 15

4. 30

46. Sampling means measuring _____ of signal at equal intervals

1. Amplitudes

2. Frequencies

3. Phases

4. None of the given

47. A sine wave is _____.

1. periodic and discrete

2. aperiodic and discrete

3. periodic and continuous

4. aperiodic and continuous

48. The inversion of the level represents a 1 bit in _____ encoding

1. NRZ-I

2. NRZ-L

3. RZ

4. Manchester

49. To make sure that source does not overwhelm destination by sending data faster than it can be handled and processed is called?

1. Addressing & Routing

2. Exchange Management

3. Flow Control

4. Recovery

50. Time domain plot show changes in signal phase with respect to time.

1. true

2. false

51. In which controlled-access method all data exchanges must be made through primary device even when the ultimate destination is a secondary device?

1. Polling

2. Reservation

3. Token Passing

4. Port Forwarding

52. If a digital signal has "L" number of levels. _____ is the number of bits required to represent each level.

1. Log L

2. Log Base 2 L

3. L Square

4. Log(2*L)

53. _____ category of coaxial cable is used for Cable TV.

1. RG-58

2. RG-59

3. RG-11

4. RG-47

54. The level of signal is always positive in NRZ encoding.

1. true

2. false

55. Radio is an example of _____ signal conversion.

1. Analog to analog

2. Analog to digital

3. Digital to Digital

4. Digital to analog

56. Analog To Analog Conversion Methods include _____.

1. AM, PM and FM

2. AM, FSK and PM

3. AM, PM and QAM

4. None of the given

57. The original Ethernet technology with the data rate of 10 Mbps is called _____?

1. Standard Ethernet

2. Fast Ethernet

3. Gigabit Ethernet

4. 10 Gigabit Ethernet

58. Which of the following is not a characteristic of a sine wave?

1. Amplitude

2. Segmentation

3. Phase

4. Frequency

59. By using _____ system, change in the file contents during file transmission can be avoided.

1. Routing

2. Flow Control

3. Error Detection and Correction

4. Congestion Control

60. In order to find the location of two errors in an eight bit stream, we have to see _____ different combinations.

1. 28

2. 16

3. 8

4. 4

61. In CSMA/CA, _____ is the amount of time divided into slots.

1. Interframe Window

2. Contention Window

3. Fragmented Window

4. Collided Window

62. _____ is used in the Stop-and-Wait protocol to overcome the issue of duplication.

1. Frame sequencing

2. Acknowledgement numbering

3. Counter and Timer reset

4. Frame sequencing and Acknowledgement numbering

63. Which one of the following is a correct-access method?

1. Polling

2. Token Passing

3. Reservation

4. All of the given

64. In the encoding where positive to negative transition is one and vice versa is zero.

1. Manchester

2. Differential Manchester

3. All of the given

4. None of given

65. If the window size is 63 in go-back N ARQ then what is the range of sequence number?

1. 0 to 63

2. 0 to 64

3. 1 to 63

4. 1 to 64

66. Following characteristics fully describe _____,
Amplitude
Period/Frequency
Phase

1. Sine Waves

2. Digital Signals

3. Aperiodic Signals

4. None of the given

67. Digitizing an Analog Signal is called _____.

1. Analog-to-Digital Conversion

2. Digital-to-Digital Conversion

3. Digital-to-Analog Conversion

4. None of the given

68. At the CRC checker, _____ means that the data unit is damaged.

1. A string of 0s

2. A string of 1s

3. A string of alternating 1s and 0s

4. A nonzero remainder

69. Which one of the following is a Random-Access protocol?

1. TDMA

2. CDMA/CD

3. ALOHA

4. CDMA/CA

70. Human voice is example of _____ signal.

1. Digital

2. Analog

3. Discrete

4. None of the given

71. In statistical time division multiplexing, number of slots in frame are less than _____.

1. Output data rate

2. Input lines

3. Input frequency

4. Multiplexed T lines

72. A _____ modem is used to connect two DTEs directly.

1. 'NULL

2. Cable

3. DSL

4. None of the given

73. If we need to correct a single error in an 8-bit data unit, we need to consider _____ possible error locations.

1. 16

2. 2

3. 4

4. 8

74. Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.

1. Large

2. Small

3. Medium

4. Zero

75. The _____ protocol uses both flow and error control.

1. TCP/IP

2. HDLC

3. ICMP

4. Stop-and-Wait

76. In _____, each station is allocated a time slot during which it can send data.

1. CDMA

2. NDMA

3. TDMA

4. FDMA

77. The extra bits added with the original data for error detection/correction are called _____.

1. Fault bits

2. Port numbers

3. Redundant bits

4. Process IDs

78. _____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.

1. N+1

2. N-1

3. N(N+1)

4. NxN

79. _____ is sometimes called the bit rate.

1. signal rate
2. modulation rate
3. **Data rate**
4. pulse rate

80. Collisions in CSMA/CA are avoided through _____.

1. The Interframe Space
2. The Contention Window
3. Acknowledgements
4. **All of the given**

81. _____ category of coaxial cable is used for thin Ethernet.

1. **RG-58**
2. RG-59
3. RG-1
4. RG-47

82. Which one is not the function of data link layer?

1. **Line discipline**
2. Flow control
3. Error control
4. Network control

83. Session layer is responsible for _____.

1. Reassembly of data

2. Maintaining the connection

84. _____ mode of serial transmission guarantees fixed rate of data.

1. Synchronous

2. Asynchronous

3. Isochronous

4. Metasochronous

85. Data Link layer provides services to the _____ layer.

1. Application

2. Transport

3. Network

4. Session

86. The _____ is the number of signal elements sent per unit time.

1. Data rate

2. Signal rate

3. Bit rate

4. Period

87. The logical connection between the peer layers is _____ connection.

1. Physical

2. Direct

3. Indirect

4. Tangible

88. What is the period of a Sine wave having frequency of 5 Hz?

1. 0.2

2. 0.1

3. 0.5

4. 0.3

89. A sine wave is defined by _____ characteristics.

1. 2

2. 3

3. 4

4. 5

90. If duration of noise is decreased during a transmission over noisy channel, fixed data rate of the channel will cause _____ number of bits being impacted by the noise.

1. Constant

2. More

3. Less

4. Zero

91. S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

1. User data

2. Control

3. Redundant

4. Original

92. The _____ generates the data and passes it along with any control information to a _____.

1. DTE, DCE

2. DCE, DTE

3. DTE, DTE

4. DCE, DCE

93. The type of ALOHA which improves the efficiency of Pure ALOHA is _____.

1. Slotted ALOHA

2. Upper ALOHA

3. Integrated ALOHA

4. Lower ALOHA

94. What is the period of a Sine wave having frequency of 2 Hz?

1. 0.2

2. 0.1

3. 0.5

4. 0.3

95. WDM stands for _____.

1. Wideband De-Modulation

2. Worst Data Manipulation

3. Wavelength Division Multiplexing

4. None of the given

96. Latency is made of _____ components.

1. Two

2. Three

3. Four

4. Five

97. The logical connection between the peer layers is _____ connection.

1. Physical

2. Direct

3. Indirect

4. Tengible

98. In line discipline after the data transmission, the sending system finishes with an _____ frame.

1. EOT

2. EKT

3. ENT

4. ESP

99. _____ of a signal is the collection of all the component frequencies it contains.

1. Time domain

2. Frequency domain

3. Frequency spectrum

4. None of the given

100. CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

1. Two-way

2. Three-way

3. Four-way

4. Five-way

101. RZ stands for _____.

1. Return to Z

2. Retire a Zero

3. Return ot Zero

4. None of the given

1. In _____ each band is reserved for a specific ststion, and it belongs to the station all the time.

1. FDMA

2. CDMA

3. TDMA

4. CSMA

2. In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____.

1. Encapulation

2. De-encapulation

3. Packetizing

4. Framing

3. In Block coding we divide our message into blocks of k bits called as _____.

1. Code words

2. Data words

3. Passwords

4. Cross words

4. In circuit switched networks we have low efficiency but minimal _____.

1. Delay

2. Speed

3. Throughput

4. Errors

5. Error correction is more _____ than the error detection.

1. Easy

2. Useless

3. Informal

4. Difficult

6. AM signal requires _____ the BW of original signal

1. Twice

2. Half

3. Same

4. Three Times

7. Asynchronous transmission is _____.

1. Slow

2. Fast

3. Costly

4. None effective

8. The Internet is _____.

1. software for sending e-mail around the world

2. a government-owned agency that links computers

3. a global network of computers networks

4. a specialised form of local area network

9. Time division multiplexing is used in _____ systems.

1. Analog

2. Hybrid

3. Digital

4. Automated

10. Radio wave transmission utilizes _____ different types of propagation.

1. Two

2. Three

3. Four

4. Five

11. Checksum is an error-detection technique that can be applied to a message of _____ length.

1. Exactly 4

2. Exactly 8

3. Exactly 32

4. Any

12. At the Application layer, object/information is in the form of _____.

1. Message

2. Packet

3. Segment

4. Frame

13. POST stand for _____?

1. Plain Old Telephone Set

2. Plain Old Time Sharing

3. Plain Old Telephone System

4. Plain Old Telephone Service

14. Which of the following statement is correct?

1. Digital signals are less prone to Noise

2. Digital signals are highly prone to Noise

3. Analog Signals are less prone to Noise

4. Digital signals are not affected by Noise

15. In selective-reject ARQ, only the specific damaged or lost frame is _____.

1. Retransmitted

2. Forwarded

3. Selected

4. Rejected

16. In ASK correct formula for calculating the bandwidth ia as _____.

1. B=(1+d)S

2. B=(1*d)S

3. B=(d-1)S

4. B=(d-5)S

17. Encoding digital data into digital signals is called _____.

1. Analog-to-Digital Conversion

2. Digital-to-Digital Conversion

3. Digital-to-Analog Conversion

4. None of the given

18. If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted.

1. ≠ 0

2. = 0

3. ≠ 1

4. = 1

19. Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____.

1. FSK, PSK

2. PSK, FSK

3. ASK, PSK

4. ASK, FSK

20. PSK is susceptible to the noise degradation.

1. True

2. False

21. _____ works with topologies in which one drvice is designated as a primary station and the other devices are secondary stations.

1. Reservation

2. Polling

3. Token

4. None of the given

22. No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between _____.

1. Virtual LANs

2. Two adjacent nodes

3. Ethernet links

4. Source and destination PCs

23. CDMA stands for _____.

1. Carrier Division Multiple Access

2. Carrier Data Multiple Access

3. Code Data Multiple Access

4. Code Division Multiple Access

24. If users must take turns using the link, then it is called Spatial Sharing.

1. true

2. false

25. GO-BACK-N protocol is one of the _____ layer protocols, which is used to control the flow of data during the transmission.

1. Physical

2. Network

3. Presentation

4. Data link

26. In _____ a dedicated communication path is established between two stations through the nodes of the network

1. Circuit switching

2. Packet switching

27. Signals travel through fiber optic cable are in the form of _____.

1. Light

2. Bits

3. Electromagnetic

4. Bytes

28. _____ contains a repeater.

1. Active hub

2. Passive hub

29. In frequency shift keying, _____ remain(s) constant.

1. Frequency

2. Amplitude

3. Both Amplitude and Phase

4. Both Phase and Frequency

30. _____ is/are un-reliable protocol(s).

1. IP and TCP

2. UDP

3. IP and UDP

4. TCP

31. _____ is not a function of Data Link Control.

1. Framing

2. Modulation

3. Error Control

4. Flow Control

32. Each computer on the Internet has a unique numeric address called a(n) _____.

1. domain address

2. protocol address

3. IP address

4. Web address

33. dB is negative if a signal is _____.

1. Attenuated

2. Distorted

3. Amplified

4. Noisy

34. We can have _____ different groups with a 4 bit block.

1. 4

2. 8

3. 16

4. 32

35. Line Configuration refers to the way two or more devices attach to a _____.

1. Path

2. Circuit

3. Link

4. Router

36. Error detection and correction are the services provided by _____ layer.

1. Data link layer

2. Application layer

3. Physical layer

4. Session layer

37. Which of the following sublyer resolves the contention for the shared media.

1. MAC

2. LLC

3. Physical

4. None of the given.

38. There are _____ basic categories of multiplexing.

1. 2

2. 3

3. 7

4. 5

39. Low pass channel has _____ bandwidth between two stations.

1. Dedicated

2. Shared

3. Multiplexed

4. Infinite

40. BSC supports _____ transmission using _____ flow control.

1. Full-duplex, Stop and wait ARQ

2. Half-duplex, Selective reject ARQ

3. Full-duplex, Selective reject ARQ

4. Half-duplex, Stop and wait ARQ

41. Quantization is a method of assigning _____ values in a specific range to sampled instances.

1. Negative

2. Positive

3. Binary

4. Integral

42. _____ encoding is almost obsolete today

1. Bipolar

2. Unipolar

3. Polar

4. None of the given

43. YMODEM has _____ Byte of data unit.

1. 1024

2. 256

3. 128

4. 512

44. Like Data link layer, _____ is also responsible for Flow control.

1. Transport Layer

2. Session Layer

45. In CRC there is no error if the remainder at the receiver is _____.

1. Equal to the remainder at the sender

2. Zero

3. Nonzero

4. The quotient at the sender

46. _____ is normally used where speed is priority in data transfer.

1. Serial data transmission

2. Hybrid data transmission

3. Parallel data transmission

4. Both parallel and serial data transmission

47. In Block coding scheme, number of code words is always _____ data words.

1. Less than

2. Equal to

3. Greater than

4. Same as

48. A portion of the path that carries TX between a given pair of devices is known as _____.

1. Direct Point

2. Bridge

3. Channel

4. Access Point

49. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 200, 400, 600 and 800?

1. 100

2. 500

3. 300

4. 600

50. _____ is the process of converting digital data to digital signals.

1. CSMA/CD

2. CSMA/CA

3. Line coding

4. Segmentation

51. _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

1. Fast Ethernet

2. Standard Ethernet

3. Gigabit Ethernet

4. 10BASE-T Ethernet

52. Congestion Control is a feature of layer(s).

1. Data Link

2. Network

3. Transport

4. All mentioned

53. In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

1. Same as

2. Two times

3. Three times

4. Four times

54. What is the Bandwidth of a periodic signal if it is decomposed into 4 sine waves with frequencies 300, 600, 900 and 1200?

1. 100

2. 900

3. 300

4. 600

55. _____ signal can take infinite levels of intensity over time.

1. Digital

2. Discrete

3. Analog

4. Logical

56. Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of _____.

1. Local Area Network

2. Metropolitan Area Network

3. Wide Area Network

4. Home Based Network

57. Which layer is concerned with the syntax and semantics of info exchange between two systems?

1. Physical

2. Application

3. Session

4. Presentation

58. Time domain shows changes in _____.

1. time w.r.t signal amplitude

2. signal amplitude w.r.t time

3. time

4. All of the given

59. In ASK, Noise usually affects the _____.

1. Amplitude

2. Phase

3. Sample

4. Frequency

60. In analog transmission, the base signal is called the_____.

1. Carrier Signal

2. Analog signal

3. Digital signal

4. Modulated signal

61. Which of the following is most affected by noise?

1. PSK

2. ASK

3. FSK

4. QAM

62. In Synchronous TDM, Time slots are not same in number as input devices.

1. True

2. False

63. The flag in PPP is a byte that needs to be _____ whenever it appears in the data section of the frame.

1. Duplicated

2. Blocked

3. Cleaned

4. Escaped

64. Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user.

1. PDM

2. CSMA

3. TDM

4. FDM

65. DLC in Data Link Layer stands for _____.

1. Divide Line Communication

2. Data Line Code

3. Data Link Control

4. Demand Link Coordination

66. In Pulse Code Modulation (PCM), the sampling is dependent on _____.

1. Time

2. Amplitude

3. Frequency

4. Signal Rate

67. Digital signals are refered to be _____.

1. Continuous

2. Discrete

3. All of the given

4. None of the given

68. Two or more computers connected so that they can communicate with each other and share information is called a _____.

1. satellite

2. protocol

3. broadcast

4. network

69. Which error detection method uses one's complement arithmetic.

1. Cyclic Redundancy Check (CRC)

2. Longitudinal Red Check (LRC)

3. Checksum

4. Simple Parity Check

70. WDM stands for _____.

1. Wave Division Multiplexing

2. Wrong Division Multiplexing

3. Well Division Multiplexing

4. West Division Multiplexing

71. Analog refers to something that is continuous in _____.

1. Time

2. Space

3. Frequency

4. None of the given

72. What is the frequency of a sine wave if it completes one cycle in 5 seconds?

1. 0.5

2. 0.6

3. 0.3

4. 0.2

73. In an analog hierarchy to carry voice channels, a group can carry _____ voice channels.

1. 60

2. 12

3. 20

4. 10

74. STP is more expensive than UTP and is less susceptible to noise.

1. True

2. False

75. Switch is a network device which operates on the _____ layer of the TCP/IP protocol suite.

1. Application

2. Transport

3. Presentation

4. Data link

76. _____ are used to exchange session management and control information between connected devices.

1. I-frames

2. U-frames

3. S-frames

4. N-frames

77. The message 1110 sent by a source is received by a destination as 1011. This is _____ type of error.

1. Burst

2. Single-Bit

3. Uni-Bit

4. Hamming

FINAL TERM EXAMINATION
Spring 2011

Question No: 1 (Marks: 1) - Please choose

The inversion of the level at 1 bit is called as _____

► NRZ-L

► **NRZ-I Page 73**

► RZ

Question No: 2 (Marks: 1) - Please choose

In selective-reject ARQ, only the specific damaged or lost frame is_____.

► **Retransmitted (Page 200)**

► Forwarded

► Selected

► Rejected

Question No: 3 (Marks: 1) - Please choose

YMODEM has _____Byte of data unit.

► **1024 Page 205**

► 256

► 128

► 512

Question No: 4 (Marks: 1) - Please choose

Which of the following sublyer, resolves the contention for the shared media

► **MAC (Page 219)**

► LLC

► Physical

Question No: 5 (Marks: 1) - Please choose

Like 10 Base 5, 10 Base 2 is a _____ topology LAN

► Ring

► Mesh

► Star

► **Bus (Page 227)**

Question No: 6 (Marks: 1) - Please choose

At the CRC generator, _____ added to the data unit after the division process

► **0s are (Page 176)**
► 1s are
► The polynomial
► The CRC remainder is

Question No: 7 (Marks: 1) - Please choose

Flow control is needed to prevent _____.

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 8 (Marks: 1) - Please choose

In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 9 (Marks: 1) - Please choose

In 56K Modems Max Uploading speed is _____ bytes and downloading speed is _____ byte.

- 40K, 56K
- **33.6K, 56K (Page 117)**
- 56K, 33.6K
- None of given

Question No: 10 (Marks: 1) - Please choose

If db is amplified then attenuation is ----------

- **Positive (Page 142)**
- Negative
- Zero
- None of the above

Question No: 11 (Marks: 1) - Please choose

Amplifiers are used to _____the signal to heat.

- **Amplify (Page 142)**
- Rectify
- Testify
- Nullify

Question No: 12 (Marks: 1) - Please choose

_____requires the maximum number of I/O ports.

- Bus
- Star
- **Mesh (Page 29)**

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- Ring

Question No: 13 (Marks: 1) - Please choose

There are _____ basic categories of multiplexing.

- **3 (Page 148)**
- 4
- 2
- 5

Question No: 14 (Marks: 1) - Please choose

In _____ transmission, bits are transmitted over a single wire, one at a time.

- Asynchronous serial
- Synchronous serial
- **Parallel (Page 98)**
- Asynchronous & Synchronous serial

Question No: 15 (Marks: 1) - Please choose

In_____ transmission, bits are transmitted over their own wires

- Asynchronous serial
- Synchronous serial
- **Parallel**

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- Asynchronous & Synchronous serial

Question No: 16 (Marks: 1) - Please choose

EIA 232 allows for a maximum bit rate of _____Kbps.

- 40
- 30
- **20 (Page 104)**
- 10

Question No: 17 (Marks: 1) - Please choose

In CRC the quotient at the sender _____

- Becomes the dividend at the receiver
- Becomes the divisor at the receiver
- **Is discarded**

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- Is the remainder

Question No: 18 (Marks: 1) - Please choose

In line discipline after the data transmission, the sending system finishes with an _____ frame

- **EOT (Page 189)**
- EKT
- ENT
- ESP

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FINALTERM EXAMINATION
Spring 2010

Question No: 1 (Marks: 1) - Please choose one
Encryption and encoding are the same terms.

► True
► **False (Page 52)**

Question No: 2 (Marks: 1) - Please choose one
Traditional modems are wide spread now to a data rate of _____.

► **56 Kbps (Page 115)**
► 72 Kbps
► 42 Kbps
► 96 Kbps

Question No: 3 (Marks: 1) - Please choose one
Bi phase encoding is a type of bipolar encoding in which we use two voltage levels.

► True
► **False (Page 73)**

Question No: 4 (Marks: 1) - Please choose one
The _____ layer changes bits into electromagnetic signals.

► **physical** http://www.ee.surrey.ac.uk/Projects/CAL/networks/Physical_Layer.htm
► data link
► transport
► none of given

Question No: 5 (Marks: 1) - Please choose one
Which is not an element of protocol?

► Semantics
► Timing
► **Communication service module (Page 19)**

Question No: 6 (Marks: 1) - Please choose one
A telephone network is an example of a _____ network.

► Packet-switched
► **Circuit-switched (Page 38)**

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► Message-switched
► none of the given

Question No: 7 (Marks: 1) - Please choose one
The bit rate always equals the baud rate in which type of signal?

► **FSK (Page 86)**
► QAM
► 4-PSK
► PSK

Question No: 8 (Marks: 1) - Please choose one
Secondary hub in a tree must be a passive hub.

► True
► **False (Page 31)**

Question No: 9 (Marks: 1) - Please choose one
In case of uploading at the switching station, data is converted to digital signal using _____.

► TCP
► **PCM (Page 116)**
► ICP
► TDM

Question No: 10 (Marks: 1) - Please choose one
Category 5 UTP cable is used for data transmission of upto_____.

► **100 Mbps (Page 123)**
► 200 Mbps
► 250 Mbps
► 400 Mbps

Question No: 11 (Marks: 1) - Please choose one
Which of the following primarily uses guided media?

► Cellular telephone system
► **Local telephone system (Page 120)**
► Satellite communications
► Radio broadcasting

Question No: 12 (Marks: 1) - Please choose one
Ultra high-frequency waves always use _____ propagation.

► Ground
► Sky

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► **Line of Sight (Page 136)**
► Space

Question No: 13 (Marks: 1) - Please choose one
Distortion occurs in a _____ signal.

► Rectified
► **Composite (Page 141)**
► Amplified
► none of the given

Question No: 14 (Marks: 1) - Please choose one
Which of the following are not used to measure the performance of TX Media.

► Throughput
► Propagation Speed
► Propagation Time
► **none of the given (Page 144)**

Question No: 15 (Marks: 1) - Please choose one
A portion of the path that carries TX b/w a given pair of devices is known as _____.

► Node
► Bridge
► **Channel (Page 147)**
► Gateway

Question No: 16 (Marks: 1) - Please choose one
_____ takes data from one high speed line and breaks it into portions.

► Multiplexing
► **Inverse multiplexing (Page 158)**
► Inverse subtraction
► Inverse addition

Question No: 17 (Marks: 1) - Please choose one
The _____ layer is the layer closest to the transmission medium.

► **physical**
► data link
► network
► transport
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Question No: 18 (Marks: 1) - Please choose one
In primary-secondary communication _____ is always the initiator of a session

- ► **Primary (Page 189)**
- ► Secondary
- ► Sender
- ► Receiver

Question No: 19 (Marks: 1) - Please choose one
YMODEM has _____Byte of data unit.

- ► **1024 (Page 205)**
- ► 256
- ► 128
- ► 512

Question No: 20 (Marks: 1) - Please choose one
_____ coordinates the amount of data that can be sent before receiving acknowledgment

- ► **flow control (Page 186)**
- ► error control
- ► data control

Question No: 21 (Marks: 1) - Please choose one
If the ASCII character H is sent and the character I is received, what type of error is this?

- ► **Single-bit (Page 169)**
- ► Multiple-bit
- ► Burst
- ► Recoverable

Question No: 22 (Marks: 1) - Please choose one
In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

- ► Stop-and-wait
- ► Go-Back-N
- ► **Selective reject (Page 200)**
- ► Stop-and-wait & Go-back-N

Question No: 23 (Marks: 1) - Please choose one
Data link protocols can be divided into _____ sub-groups.

- ► **two (Page 202)**
- ► three
- ► four
- ► five

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Question No: 24 (Marks: 1) - Please choose one
If odd parity is used for ASCII error detection, the number of 0s per 8-bit symbol is _____

- ► Even
- ► **Odd (Page 173)**
- ► Indeterminate
- ► 42

Question No: 25 (Marks: 1) - Please choose one
In Y-MODEM Multiple files can be sent simultaneously

- ► **True (Page 205)**
- ► False

Question No: 26 (Marks: 1) - Please choose one
The PDU has no flag fields, no CRC, and no station address

- ► **TRUE (Page 220)**
- ► FALSE

Question No: 27 (Marks: 1) - Please choose one
Check sum method is used for _____ layers.

- ► Physical
- ► Application
- ► Transport
- ► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 28 (Marks: 1) - Please choose one
Repeater is an amplifier, not a regenerator.

- ► True
- ► **False (Page 240)**

Question No: 29 (Marks: 1) - Please choose one
RARP stands for Reverse Address Resolution Protocol.

- ► **True (Page 244)**
- ► False

Question No: 30 (Marks: 1) - Please choose one
The BNC-T connector is a T-shaped device with _____ ports

- ► **Three (Page 228)**
- ► Two
- ► Four
- ► Five

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FINALTERM EXAMINATION
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Question No: 1 (Marks: 1) - Please choose one
When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- ► physical
- ► **transport**
- ► application
- ► none of the given

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Question No: 2 (Marks: 1) - Please choose one
A periodic signal completes one cycle in 0.001 s. What is the frequency?

- ► 1 Hz
- ► 100 Hz
- ► **1 KHz (Page 61)**
- ► 1 MHz

Question No: 3 (Marks: 1) - Please choose one
Zero crossing bandwidth is also called as equivalent noise bandwidth.

- ► True
- ► **False (Page 67)**

Question No: 4 (Marks: 1) - Please choose one
Amplitude in ASK is more resistive to EMI and Noise.

- ► True
- ► **False (Page 87)**

Question No: 5 (Marks: 1) - Please choose one
If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

- ► 5 KHz
- ► **10 KHz (Page 95)**
- ► 200 KHz
- ► 530 KHz

Question No: 6 (Marks: 1) - Please choose one
There are _____ types of serial transmission:

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► 1
► **2 (Page 99)**
► 3
► 4

Question No: 7 (Marks: 1) - Please choose one
Synchronous transmission has _____.

► a start bit
► a stop bit
► gaps between bytes
► **none of the given (page 99)**

Question No: 8 (Marks: 1) - Please choose one
Which of the following is an example of ITU-T modem standards?

► T-series
► X-series
► N-series
► **V-series (Page 114)**

Question No: 9 (Marks: 1) - Please choose one
The maximum data rate in the uploading direction is still _____.

► 26.6 Kbps
► **33.6 Kbps (Page 117)**
► 36.6 Kbps
► 46.6 Kbps

Question No: 10 (Marks: 1) - Please choose one
Category 5 UTP cable is used for data transmission of upto_____.

► **100 Mbps (Page 123)**
► 200 Mbps
► 250 Mbps
► 400 Mbps

Question No: 11 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

► Conical
► **Barrel (Page 131)**
► Circular
► Rectangular

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Question No: 12 (Marks: 1) - Please choose one
The VLF and LF bands use _____ propagation for communications.

- ► Ground
- ► Sky
- ► **Line of sight (Page 134)**
- ► Space

Question No: 13 (Marks: 1) - Please choose one
Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- ► **Single (Page 147)**
- ► Multi
- ► Single and Multi
- ► none of the given

Question No: 14 (Marks: 1) - Please choose one
Need for Addressing makes Asynchronous TDM inefficient for bit or byte _____.

- ► **Interleaving (Page 158)**
- ► Addition
- ► Subtraction
- ► None of the given

Question No: 15 (Marks: 1) - Please choose one
_____ takes data from one high speed line and breaks it into portions.

- ► Multiplexing
- ► **Inverse multiplexing (Page 158)**
- ► Inverse subtraction
- ► Inverse addition

Question No: 16 (Marks: 1) - Please choose one
A traditional telephone line has a bandwidth of _____.

- ► **3000Hz (Page 111)**
- ► 4000 Hz
- ► 2000 MHz
- ► 4000 MHz

Question No: 17 (Marks: 1) – Please choose one
If the ASCII character H is sent and the character I is received, what type of error is this?

- ► **Single-bit (Page 169)**
- ► Multiple-bit

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► Burst
► Recoverable

Question No: 18 (Marks: 1) - Please choose one
At the CRC generator, _____ added to the data unit after the division process

► **0s are**
► 1s are
► The polynomial
► The CRC remainder is
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Question No: 19 (Marks: 1) - Please choose one
Error control in the data link layer is based on _____

► **automatic repeat request (Page 196)**
► automatic repeat acknowledgment
► automatic send acknowledgment

Question No: 20 (Marks: 1) - Please choose one
In line discipline the initiator first transmits a frame called an _____

► **Enquiry (Page 189)**
► Acknowledgment
► NAK
► Request

Question No: 21 (Marks: 1) - Please choose one
Primary device uses _____ to receive transmission from the secondary devices.

► ACK
► ENQ
► **POLL (Page 191)**

Question No: 22 (Marks: 1) - Please choose one
Flow control is needed to prevent _____.

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 23 (Marks: 1) - Please choose one
For stop-and-wait ARQ, for N data packets sent, _____ acknowledgments are needed.

► **N**

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► 2N
► N-1
► N+1

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Question No: 24 (Marks: 1) - Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 25 (Marks: 1) - Please choose one
HDLC is an acronym for _____.

► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit

Question No: 26 (Marks: 1) - Please choose one
Token Bus has no commercial application in data communications

► **True (Page 232)**
► False

Question No: 27 (Marks: 1) - Please choose one
The BNC-T connector is a T-shaped device with _____ ports

► **Three (Page 228)**
► Two
► Four
► Five

Question No: 28 (Marks: 1) - Please choose one
Each station in the Token Ring regenerates the frame.

► **True (Page 234)**
► False

Question No: 29 (Marks: 1) - Please choose one
Repeater works on _____ layer.

► Data Link
► Physical
► **Network (224)**
► Application

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Question No: 30 (Marks: 1) - Please choose one
Trunks are transmission media such as _____ that handle the telephone to the nearest end office.

- ► Satellite links
- ► **Twisted-pair & Fiber-optic**
- ► Twisted-pair
- ► Fiber-optic

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter8/mixed_quiz.html

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CS601- Data Communication

Question No: 1 (Marks: 1) - Please choose one
_____representation of links that connect nodes is called as physical topology.

- ► geometrical
- ► logical
- ► **physical (page 44)**

Question No: 2 (Marks: 1) – Please choose one
The internet model consists of _____ layers.

- ► three
- ► two
- ► **five**
- ► seven

http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter2/multiple_choice_quiz.html

Question No: 3 (Marks: 1) – Please choose one
Encryption and encoding are the same terms.

- ► True
- ► **False (Page 52)**

Question No: 4 (Marks: 1) - Please choose one
The amplitude of a digital signal depends upon the_____ to represent a bit.

- ► phase
- ► **voltage (Page 59)**
- ► wavelength

Question No: 5 (Marks: 1) - Please choose one
The inversion of the level at 1 bit is called as _____

- ► NRZ-L

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► **NRZ-I (Page 73)**
► RZ

Question No: 6 (Marks: 1) - Please choose one
Modulation of an analog signal can be accomplished through changing the _____ of the carrier signal.

► amplitude
► frequency
► phase
► **all of the given**

Question No: 7 (Marks: 1) - Please choose one
If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

► 5 KHz
► **10 KHz (Page 95)**
► 200 KHz
► 530 KHz

Question No: 8 (Marks: 1) - Please choose one
Category 5 UTP cable is used for data transmission of upto_____.

► **100 Mbps (Page 123)**
► 200 Mbps
► 250 Mbps
► 400 Mbps

Question No: 9 (Marks: 1) - Please choose one
The RG number gives us information about _____.

► Twisted pairs
► **Coaxial cables (Page 125)**
► Optical fibers
► all of the given

Question No: 10 (Marks: 1) - Please choose one
The inner core of an optical fiber is _____ in composition.

► **Glass plastic (Page 130)**
► Copper
► Bimetallic
► Liquid

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Question No: 11 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

- ► Conical
- ► **Barrel (Page 131)**
- ► Circular
- ► Rectangular

Question No: 12 (Marks: 1) - Please choose one
The VLF and LF bands use _____ propagation for communications.

- ► Ground
- ► Sky
- ► **Line of sight (Page 134)**
- ► Space

Question No: 13 (Marks: 1) - Please choose one
Multiplexing is the set of techniques that allows simultaneous TX of multiple signals across _____ data link

- ► **Single (Page 147)**
- ► Multi
- ► Single and Multi
- ► none of the given

Question No: 14 (Marks: 1) - Please choose one
A portion of the path that carries TX b/w a given pair of devices is known as _____.

- ► Node
- ► Bridge
- ► **Channel (Page 147)**
- ► Gateway

Question No: 15 (Marks: 1) - Please choose one
Which error detection method involves polynomials?

- ► Checksum
- ► Two-dimensional parity check
- ► **CRC (Page 177)**
- ► Simple parity check

Question No: 16 (Marks: 1) - Please choose one
If the ASCII character G is sent and the character D is received, what type of error is this?

- ► Single-bit
- ► Multiple-bit

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► **Burst**
► Recoverable
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 17 (Marks: 1) - Please choose one
Which error detection method involves the use of parity bits?

► **Simple parity check & two dimensional parity check**
► CRC
► Two-dimensional parity check
► Simple parity check
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 18 (Marks: 1) - Please choose one
Which error detection method can detect a single-bit error?

► Simple parity check
► Two-dimensional parity check
► CRC
► **All of the given**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 19 (Marks: 1) - Please choose one
The Hamming code is a method of _____

► Error detection
► **Error correction (Page 181)**
► Error encapsulation
► Error detection & Error encapsulation

Question No: 20 (Marks: 1) - Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 21 (Marks: 1) - Please choose one
In selective-reject ARQ, only the specific damaged or lost frame is_____.

► **Retransmitted (Page 200)**
► Forwarded
► Selected
► Rejected

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Question No: 22 (Marks: 1) - Please choose one
Which of the following sub layer, resolves the contention for the shared media

► **MAC (Page 219)**
► LLC
► Physical

Question No: 23 (Marks: 1) - Please choose one
The PDU has no flag fields, no CRC, and no station address

► **TRUE (Page 220)**
► FALSE

Question No: 24 (Marks: 1) - Please choose one
IEEE divides the base band category into _____ standards.

► **5 (Page 222)**
► 4
► 3
► 6

Question No: 25 (Marks: 1) - Please choose one
Like 10 Base 5, 10 Base 2 is a _____ topology LAN

► Ring
► Mesh
► Star
► **Bus (Page 227)**

Question No: 26 (Marks: 1) - Please choose one
Check sum method is used for _____ layers.

► Physical
► Application
► Transport
► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 27 (Marks: 1) - Please choose one
Repeater works on _____ layer.

► Data Link
► Physical
► **Network (Page 224)**
► Application

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Question No: 28 (Marks: 1) - Please choose one
Trunks are transmission media such as _____ that handle the telephone to the nearest end office.

► Satellite links
► **Twisted-pair & Fiber-optic**
► Twisted-pair
► Fiber-optic
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter8/mixed_quiz.html

Question No: 29 (Marks: 1) - Please choose one
Which of the following _____ uses a series of filters to decompose multiplexed signal into its constituent signals?

► MUX
► **DEMUX (Page 150)**
► Switch
► Bridge

Question No: 30 (Marks: 1) - Please choose one
In Fast Ethernet, data rate can be increased by _____ collisions.

► Increasing
► **Decreasing (Page 230)**
► Keeping Constant
► None of the given

FINALTERM EXAMINATION
Spring 2009

Question No: 1 (Marks: 1) - Please choose one
Which is not an element of protocol
► semantics
► timing
► **communication service module (Page 19)**

Question No: 2 (Marks: 1) - Please choose one
Layers 5, 6 and 7 also called as network support layers.

► True
► **False (Page 42)**

Question No: 3 (Marks: 1) - Please choose one
Fourier transform tells us that any digital signal can be decomposed into infinite number of periodic signals

► **True**
► **False (Page 42)**

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Question No: 4 (Marks: 1) - Please choose one
Time domain plot show changes in signal phase with respect to time.

► **True**
► **False (Page 63)**

Question No: 5 (Marks: 1) - Please choose one
Analog to digital conversion is also termed as modulating an analog signal.

► True
► **False (Page 70)**

Question No: 6 (Marks: 1) - Please choose one
DC component is also termed as Direct current component or a component with non-zero frequency.

► **False (Page 72)**
► **True**

Question No: 7 (Marks: 1) - Please choose one
Manchester is a type of _____encoding.

► **biphase (Page 75)**
► polar
► biphase & polar
► none of the given

Question No: 8 (Marks: 1) - Please choose one
The inversion of the level at 1 bit is called as _____

► NRZ-L
► **NRZ-I (Page 73)**
► RZ

Question No: 9 (Marks: 1) - Please choose one
PCM is the first process of PAM.

► True
► **False (Page 80)**

Question No: 10 (Marks: 1) - Please choose one
In 4PSK each phase change represents _____bits.

► 3
► 6
► **2 (Page 91)**
► 4

Question No: 11 (Marks: 1) - Please choose one
In RS 422 Balanced mode two lines carry _____ signals which are not identical to each other.

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► **Same (Page 109)**
► different
► digital
► analog

Question No: 12 (Marks: 1) - Please choose one
A _____ converts an analog signal into a digital signal.

► **Demodulator (Page 110)**
► Modulator
► Digital-to-analog converter

Question No: 13 (Marks: 1) - Please choose one
Which of the following is an example of ITU-T modem standards:

► T-series
► X-series
► N-series
► **V-series (Page 114)**

Question No: 14 (Marks: 1) - Please choose one
The maximum data rate in the uploading direction is still _____.

► 26.6 Kbps
► **33.6 Kbps (Page 117)**
► 36.6 Kbps
► 46.6 Kbps

Question No: 15 (Marks: 1) - Please choose one
Which of the following primarily uses guided media

► Cellular telephone system
► **Local telephone system (Page 120)**
► Satellite communication
► Radio broadcasting

Question No: 16 (Marks: 1) - Please choose one
When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____occurs.

► Reflection
► **Refraction (Page 127)**
► Incidence
► Criticism

Question No: 17 (Marks: 1) - Please choose one
When we talk about unguided media, usually we are referring to _____.

► Metallic wires
► Nonmetallic wires

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► **The air (Page 132)**
► Water

Question No: 18 (Marks: 1) - Please choose one
Optical fibers are defined by the ratio of the _____ of their core to the diameter of their cladding.

► **Diameter (Page 130)**
► Radius
► Length
► Width

Question No: 19 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

► Conical
► **Barrel (Page 131)**
► Circular
► Rectangular

Question No: 20 (Marks: 1) - Please choose one
Radio wave transmission utilizes _____ different types of propagation.

► Four
► Three
► Two
► **Five (Page 132)**

Question No: 21 (Marks: 1) - Please choose one
dB is _____ if a signal is amplified.

► **Negative**
► **Positive (Page 142)**
► Null
► Zero

Question No: 22 (Marks: 1) - Please choose one
A prism can deflect the light depending upon the angle of _____ and the frequency.

► **Deviation**
► **Incident (Page 151)**
► Refraction (Page 127)
► Reflection

Question No: 23 (Marks: 1) - Please choose one
Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____

► **Large (Page 158)**
► Small
► Medium
► None of the given

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Question No: 24 (Marks: 1) - Please choose one
The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

► **Twisted-pair (Page 160)**
► Coaxial
► Fiber-optic
► None of the given

Question No: 25 (Marks: 1) - Please choose one
Data from a computer are _____; the local loop handles _____ signals.

► Analog; analog
► Analog; digital
► Digital; digital
► **Digital; analog**
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter9/multiple_choice_quiz.html

Question No: 26 (Marks: 1) - Please choose one
Which error detection method uses ones complement arithmetic?

► Simple parity check
► Two-dimensional parity check
► CRC
► **Checksum (Page 179)**

Question No: 27 (Marks: 1) - Please choose one
Flow control is needed to prevent _____

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 28 (Marks: 1) - Please choose one
_____ coordinates the amount of data that can be sent before receiving acknowledgment

► **flow control (Page 186)**
► error control
► data control

Question No: 29 (Marks: 1) - Please choose one
Error control is both error _____ and error _____

► **detection; correction (Page 186)**
► detection; deletion
► detection; avoidance
► detection; forwarding

Question No: 30 (Marks: 1) - Please choose one
Addressing is not needed in _____ configuration.

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► **Point to Point (Page 190)**
► Multipoint
► Point to point and multipoint

Question No: 31 (Marks: 1) - Please choose one
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

► **0 to 63**
► 0 to 64
► 1 to 63
► 1 to 64
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter11/multiple_choice_quiz.html

Question No: 32 (Marks: 1) - Please choose one
A timer is set when _____ is sent out.

► A data frame
► **An ACK (Page 197)**
► A NAK

Question No: 33 (Marks: 1) - Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 34 (Marks: 1) - Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 35 (Marks: 1) - Please choose one
BLAST stands for :

► **Blocked asynchronous transmission (Page 205)**
► Blocked synchronous transmission
► Barrel asynchronous transmission
► Below asynchronous transmission

Question No: 36 (Marks: 1) - Please choose one
HDLC is an acronym for _____.

► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit
Question No: 37 (Marks: 1) – Please choose one

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The HDLC _____ field defines the beginning and end of a frame.

► **Flag (Page 214)**
► Address
► Control
► FCS

Question No: 38 (Marks: 1) – Please choose one
_____ is the access protocol used by traditional Ethernet.

► **CSMA/CD (Page 222)**
► CSMA/CA
► Token Ring
► CSMA

Question No: 39 (Marks: 1) – Please choose one
Bridges can divide a large _____ into smaller segments

► **Network (Page 241)**
► Packet
► Frame
► Address

Question No: 40 (Marks: 1) – Please choose one
Like VRC, LRC and CRC, Checksum is also based on _____.

► **Redundancy (Page 179)**
► Decimal Division
► Encryption
► Encoding

FINALTERM EXAMINATION
Fall 2009

Question No: 1 (Marks: 1) – Please choose one
The information to be communicated in a data communications system is the

► Medium
► Protocol
► **Message (Page 7)**
► Transmission

Question No: 2 (Marks: 1) – Please choose one
A set of devices connected by communication links is called networking

► **True (Page 12)**
► False

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Question No: 3 (Marks: 1) – Please choose one
Internet with small "i" specifies the world wide Network the actual internet.

- ► True
- ► **False (Page 39)**

Question No: 4 (Marks: 1) – Please choose one
Data chunk at data link layer is called_____

- ► frame
- ► **packet (Page 38)**
- ► datagram

Question No: 5 (Marks: 1) – Please choose one
Data synchronization is a function related with _____

- ► **session layer (Page 51)**
- ► presentation layer
- ► transport

Question No: 6 (Marks: 1) – Please choose one
When data are transmitted from device A to device B, the header from A's layer 4 is read by B's _____ layer.

- ► physical
- ► **transport**
- ► application
- ► none of the given

http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter2/multiple_choice_quiz.html

Question No: 7 (Marks: 1) – Please choose one
Data must be converted into_____ before transmission.

- ► **signal (Page 56 and 84)**
- ► wave
- ► electric pulse

Question No: 8 (Marks: 1) – Please choose one
PCM is the first process of PAM.

- ► True
- ► **False (Page 80)**

Question No: 9 (Marks: 1) – Please choose one
In _____ transmission, bits are transmitted over a single wire, one at a time.

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► Asynchronous serial
► Synchronous serial
► **Parallel (Page 98)**
► Asynchronous & Synchronous serial

Question No: 10 (Marks: 1) – Please choose one
EIA 232 allows for a maximum bit rate of _____Kbps.

► 40
► 30
► **20 (Page 104)**
► 10

Question No: 11 (Marks: 1) – Please choose one
When a beam of light travels through media of two different densities, if the angle of incidence is greater than the critical angle, _____occurs.

► Reflection
► **Refraction (Page 127)**
► Incidence
► Criticism

Question No: 12 (Marks: 1) – Please choose one
A parabolic dish antenna is a(n) _____ antenna.

► Omnidirectional
► Bidirectional
► **Unidirectional (Page 138)**
► Horn

Question No: 13 (Marks: 1) – Please choose one
Ultra high-frequency waves always use _____ propagation.

► Ground
► Sky
► **Line of Sight (Page 136)**
► Space

Question No: 14 (Marks: 1) – Please choose one
Middle frequency waves having range 300 KHz-3 MHz always use _____ propagation.

► Ground
► Sky
► **Line of Sight**
► Space

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Question No: 15 (Marks: 1) – Please choose one
DB is _____ if a signal is attenuated.

► **Negative (Page 142)**
► Positive
► Null
► Zero

Question No: 16 (Marks: 1) – Please choose one
Which multiplexing technique involves signals composed of light beams?

► FDM
► TDM
► **WDM (Page 150)**
► none of the given

Question No: 17 (Marks: 1) – Please choose one
Multiplexing has long been used as an essential tool in the _____.

► Electronic industry
► **Telephone industry (Page 159)**
► Space science
► VLAN

Question No: 18 (Marks: 1) – Please choose one
A telephone network is an example of a _____ network.

► Packet-switched
► **Circuit-switched (Page 38)**
► Message-switched
► none of the given

Question No: 19 (Marks: 1) – Please choose one
The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

► **Twisted-pair (Page 160)**
► Coaxial
► Fiber-optic
► None of the given

Question No: 20 (Marks: 1) – Please choose one
Which error detection method involves polynomials?

► Checksum
► Two-dimensional parity check
► **CRC (Page 177)**
► Simple parity check

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Question No: 21 (Marks: 1) – Please choose one
In CRC there is no error if the remainder at the receiver is _____

- ► Equal to the remainder at the sender
- ► **Zero (Page 176)**
- ► Nonzero
- ► The quotient at the sender

Question No: 22 (Marks: 1) – Please choose one
In CRC the quotient at the sender _____

- ► Becomes the dividend at the receiver
- ► Becomes the divisor at the receiver
- ► **is discarded**
- ► is the remainder

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 23 (Marks: 1) – Please choose one
Which error detection method can detect a bust error?

- ► The parity check
- ► Two-dimensional parity check
- ► CRC
- ► **Two-dimensional parity check and CRC**

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Question No: 24 (Marks: 1) – Please choose one
At the CRC checker, _____ means that the data unit is damaged

- ► A string of 0s
- ► A string of 1s
- ► A string of alternating 1s and 0s
- ► **A nonzero remainder**

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 25 (Marks: 1) – Please choose one
Error control is both error _____ and error _____

- ► **detection; correction (Page 186)**
- ► detection; deletion
- ► detection; avoidance
- ► detection; forwarding

Question No: 26 (Marks: 1) – Please choose one
In line discipline the initiator first transmits a frame called an _____

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► **Enquiry (Page 189)**
► Acknowledgment
► NAK
► Request

Question No: 27 (Marks: 1) – Please choose one
In line discipline after the data transmission, the sending system finishes with an _____ frame

► **EOT (Page 189)**
► EKT
► ENT
► ESP

Question No: 28 (Marks: 1) – Please choose one
In primary-secondary communication _____ is always the initiator of a session

► **Primary (Page 189)**
► Secondary
► Sender
► Receiver

Question No: 29 (Marks: 1) – Please choose one
Primary device uses _____ to receive transmission from the secondary devices.

► ACK
► ENQ
► **POLL (Page 191)**

Question No: 30 (Marks: 1) – Please choose one
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

► **0 to 63**
► 0 to 64
► 1 to 63
► 1 to 64
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter11/multiple_choice_quiz.html

Question No: 31 (Marks: 1) – Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 32 (Marks: 1) – Please choose one

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Data link protocols can be divided into _____ sub-groups.

► **two (Page 202)**
► three
► four
► five

Question No: 33 (Marks: 1) – Please choose one
XMODEM is a _____ protocol designed for telephone-line communication b/w PCs.

► **file transfer (Page 203)**
► hardware
► software
► application exchange

Question No: 34 (Marks: 1) – Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 35 (Marks: 1) – Please choose one
Which of the following combines features of the other two?

► **ZMODEM (Page 205)**
► YMODEM
► XMODEM
► None of given

Question No: 36 (Marks: 1) – Please choose one
BLAST stands for :

► **Blocked asynchronous transmission (Page 205)**
► Blocked synchronous transmission
► Barrel asynchronous transmission
► Below asynchronous transmission

Question No: 37 (Marks: 1) – Please choose one
Which one of the following uses full duplex operation with sliding window flow control.

► **BLAST (Page 205)**
► XMODEM
► YMODEM
► ZMODEM

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Question No: 38 (Marks: 1) – Please choose one
HDLC is an acronym for _____.

- ► High-duplex line communication
- ► **High-level data link control (Page 210)**
- ► Half-duplex digital link combination
- ► Host double-level circuit

Question No: 39 (Marks: 1) – Please choose one
The DSAP and SSAP are addresses used by _____ to identify the protocol stacks.

- ► **LLC (Page 220)**
- ► MAC
- ► Network

Question No: 40 (Marks: 1) – Please choose one
The PDU has no flag fields, no CRC, and no station address

- ► **TRUE (Page 220)**
- ► FALSE

Question No: 41 (Marks: 1) – Please choose one
Which of the following is a bus topology LAN that uses base band signaling and has a max? segment length of 500 meters

- ► **10 Base5 (Page 223)**
- ► 10 Base2
- ► 100 Base2
- ► 100 Base5

Question No: 42 (Marks: 1) – Please choose one
Token Bus has no commercial application in data communications

- ► **True (Page 232)**
- ► False

Question No: 43 (Marks: 1) – Please choose one
The BNC-T connector is a T-shaped device with _____ ports

- ► **Three (Page 228)**
- ► Two
- ► Four
- ► Five

Question No: 44 (Marks: 1) – Please choose one
_____ is the access protocol used by traditional Ethernet.

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► **CSMA/CD (Page 222)**
► CSMA/CA
► Token Ring
► CSMA
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter13/mixed_quiz.html

Question No: 45 (Marks: 1) – Please choose one
When a collision is detected in a network using CSMA/CD. _____

► The frame is immediately resent
► **A jam signal is sent by the station**
► The backoff value is set to 0
► The backoff value is decremented by 1
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter13/mixed_quiz.html

Question No: 46 (Marks: 1) – Please choose one
Like VRC, LRC and CRC, Checksum is also based on _____.

► **Redundancy (Page 179)**
► Decimal Division
► Encryption
► Encoding

Question No: 47 (Marks: 1) – Please choose one
Check sum method is used for _____ layers.

► Physical
► Application
► Transport
► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 48 (Marks: 1) – Please choose one
Repeater works on _____ layer.

► Data Link
► Physical
► **Network (Page 224)**
► Application

Question No: 49 (Marks: 1) – Please choose one
When systems share a point to point link, then protocols used are called _____ protocols.

► **Direct (Page 21)**
► Indirect

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► Monolithic
► structured

Question No: 50 (Marks: 1) – Please choose one
_____ requires more bandwidth.

► **FSK** http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter5/
► ASK
► PSK
► QAM

Fall 2009
CS601- Data Communication

Question No: 1 (Marks: 1) – Please choose one
An unauthorized user is a network _____ issue.

► Performance
► Reliability
► **Security (Page 15)**
► All of the given

Question No: 2 (Marks: 1) – Please choose one
Which is not an element of protocol?

► semantics
► timing
► **communication service module (Page 19)**

Question No: 3 (Marks: 1) – Please choose one
_____ is a multipoint topology.

► Ring
► Mesh
► Tree
► **Bus (Page 31)**

Question No: 4 (Marks: 1) – Please choose one
Unidirectional traffic movement is overcome by dual ring technology.

► **True (Page 33)**
► False

Question No: 5 (Marks: 1) – Please choose one
Physical layer define characteristics of interface between device and _____

► **transmission medium** http://en.wikipedia.org/wiki/OSI_model
► another device

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► another peer physical layer at other side
► modem

Question No: 6 (Marks: 1) – Please choose one
_____ layer deals with syntax and semantics of information exchange.

► **presentation (Page 51)**
► session
► application
► physical

Question No: 7 (Marks: 1) – Please choose one
To allow access to network resources is the function of _____

► **application layer (Page 53)**
► physical layer
► network layer

Question No: 8 (Marks: 1) – Please choose one
Time domain plot show changes in signal phase with respect to time.

► True
► **False (Page 63)**

Question No: 9 (Marks: 1) – Please choose one
In 8QAM each signal shift or one baud represents _____.

► 4 bits
► 2 bits
► 5 bits
► **3 bits (Page 93)**

Question No: 10 (Marks: 1) – Please choose one
Modulation of an analog signal can be accomplished through changing the _____ of the carrier signal.

► amplitude
► frequency
► phase
► **all of the given (Page 62)**

Question No: 11 (Marks: 1) – Please choose one
EIA 449 provides much better functionality than EIA _____

► **232 (Page 110)**
► 223

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► 262
► 222

Question No: 12 (Marks: 1) – Please choose one
Which of the following is an example of ITU-T modem standards:

► T-series
► X-series
► N-series
► **V-series (Page 114)**

Question No: 13 (Marks: 1) – Please choose one
Traditional modems are wide spread now to a data rate of _____.

► **56 Kbps (Page 115)**
► 72 Kbps
► 42 Kbps
► 96 Kbps

Question No: 14 (Marks: 1) – Please choose one
In case of uploading at the switching station, data is converted to digital signal using _____.

► TCP
► **PCM (Page 116)**
► ICP
► TDM

Question No: 15 (Marks: 1) – Please choose one
The RG number gives us information about _____.

► Twisted pairs
► **Coaxial cables (Page 125)**
► Optical fibers
► all of the given

Question No: 16 (Marks: 1) – Please choose one
The _____ is an association that sponsors the use of infrared waves.

► **IrDA** http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter7/mixed_quiz.html
► EIA
► **FCC**
► PUD

Question No: 17 (Marks: 1) – Please choose one
Optical fibers are defined by the ratio of the _____ of their core to the diameter of their cladding.

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► **Diameter (Page 130)**
► Radius
► Length
► Width

Question No: 18 (Marks: 1) – Please choose one
The section of EM spectrum defined as Radio Communication is divided into _____ ranges called BANDS.

► **8 (Page 132)**
► 10
► 5
► 6

Question No: 19 (Marks: 1) – Please choose one
Radio wave transmission utilizes _____ different types of propagation.

► Four
► Three
► Two
► **Five (Page 132)**

Question No: 20 (Marks: 1) – Please choose one
The VLF and LF bands use _____ propagation for communications.

► Ground
► Sky
► **Line of sight (Page 136)**
► Space

Question No: 21 (Marks: 1) – Please choose one
In _____ propagation, low-frequency radio waves hug the earth.

► Ground
► Sky
► Line of Sight
► **Space (Page 133)**

Question No: 22 (Marks: 1) – Please choose one
dB is _____ if a signal is amplified.

► Negative
► **Positive (Page 142)**
► Null
► Zero

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Question No: 23 (Marks: 1) – Please choose one
Distortion occurs in a _____ signal.

- ► Rectified
- ► **Composite (Page 141)**
- ► Amplified
- ► none of the given

Question No: 24 (Marks: 1) – Please choose one
There are _____ basic categories of multiplexing.

- ► **3 (Page 148)**
- ► 4
- ► 2
- ► 5

Question No: 25 (Marks: 1) – Please choose one
In bit _____, MUX adds extra bits to a device.

- ► **Stuffing (Page 156)**
- ► Adding
- ► Multiplication
- ► Exchanging

Question No: 26 (Marks: 1) – Please choose one
The local loop has _____ cable that connects the subscriber telephone to the nearest end office.

- ► **Twisted-pair (Page 160)**
- ► Coaxial
- ► Fiber-optic
- ► None of the given

Question No: 27 (Marks: 1) – Please choose one
FTTC stands for _____

- ► flexible to the curb
- ► **fiber to the curb (Page 166)**
- ► fiber to the cable
- ► fiber to the center

Question No: 28 (Marks: 1) – Please choose one
If the ASCII character G is sent and the character D is received, what type of error is this?

- ► Single-bit
- ► Multiple-bit
- ► **Burst**

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► Recoverable
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 29 (Marks: 1) – Please choose one
Which error detection method can detect a single-bit error?

► Simple parity check
► Two-dimensional parity check
► CRC
► **All of the given**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 30 (Marks: 1) – Please choose one
Flow control is needed to prevent _____

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer (Page 46)**
► Collision between sender and receiver

Question No: 31 (Marks: 1) – Please choose one
In data link layer, communication requires at least _____ devices working together

► 3
► **2 (Page 185)**
► 4
► 5

Question No: 32 (Marks: 1) – Please choose one
Data link control is composed of _____ important functions.

► 2
► **3 (Page 185)**
► 4
► 5

Question No: 33 (Marks: 1) – Please choose one
_____ coordinates the amount of data that can be sent before receiving acknowledgment

► **flow control (Page 186)**
► error control
► data control

Question No: 34 (Marks: 1) – Please choose one
Primary device uses _____ to receive transmission from the secondary devices.

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► ACK
► ENQ
► **POLL (Page 191)**

Question No: 35 (Marks: 1) – Please choose one
In a Go-Back-N ARQ, if the window size is 63, what is the range of sequence number?

► **0 to 63**
► 0 to 64
► 1 to 63
► 1 to 64
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter11/multiple_choice_quiz.html

Question No: 36 (Marks: 1) – Please choose one
Data link protocols can be divided into _____ sub-groups.

► **two (Page 202)**
► three
► four
► five

Question No: 37 (Marks: 1) – Please choose one
XMODEM is a _____ protocol designed for telephone-line communication b/w PCs.

► **file transfer (Page 203)**
► hardware
► software
► application exchange

Question No: 38 (Marks: 1) – Please choose one
YMODEM uses ITU-T CRC-_____ for Error Checking

► **16 (Page 205)**
► 32
► 8
► 4

Question No: 39 (Marks: 1) – Please choose one
In Y-MODEM Multiple files can be sent simultaneously

► **True (Page 205)**
► False

Question No: 40 (Marks: 1) – Please choose one
HDLC is an acronym for _____.

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► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit

Question No: 41 (Marks: 1) - Please choose one
What is present in all HDLC control fields?

► **P/F bit (Page 215)**
► N(R)
► N(S)
► Code bits

Question No: 42 (Marks: 1) - Please choose one
Which of the following sublyer, resolves the contention for the shared media

► **MAC (Page 219)**
► LLC
► Physical

Question No: 43 (Marks: 1) - Please choose one
Ethernet LANs can support data rates between _____

► **1 and 100 Mbps (Page 223)**
► 1 and 200 Mbps
► 1 and 500 Mbps
► 1 and 100 Gbps

Question No: 44 (Marks: 1) - Please choose one
In FDDI, Token Passing is used as Access method.

► **True (Page 236)**
► False

Question No: 45 (Marks: 1) - Please choose one
Bridges can divide a large _____ into smaller segments

► **Network (Page 241)**
► Packet
► Frame
► Address

Question No: 46 (Marks: 1) - Please choose one
Like VRC, LRC and CRC, Checksum is also based on _____.

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► **Redundancy (Page 179)**
► Decimal Division
► Encryption
► Encoding

Question No: 47 (Marks: 1) - Please choose one
Check sum method is used for _____ layers.

► Physical
► Application
► Transport
► **Data link** http://www.cse.iitk.ac.in/users/dheeraj/cs425/lec09.html

Question No: 48 (Marks: 1) - Please choose one
_____ Which of the following _____ uses a series of filters to decompose multiplexed signal into its constituent signals?

► Bridge
► MUX
► **DEMUX (Page 150)**
► Switch

Question No: 49 (Marks: 1) - Please choose one
_____ We need _____ to decompose a composite signal into its components.

► **Fourier transform (Page 64)**
► nyquist theorem
► shannon capacity

Question No: 50 (Marks: 1) - Please choose one
Data from computer is in _____ form and the local loop handles _____ signals.

► Analog; analog
► Analog; digital
► Digital; digital
► **Digital; analog**
http://highered.mcgraw-hill.com/sites/0072967757/student_view0/chapter9/multiple_choice_quiz.html

FINALTERM EXAMINATION
Spring 2009

Question No: 1 (Marks: 1) - Please choose one
There are how many factors on which the performance of a network depends?

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► Three
► **Five (Page 14)**
► Four
► Two

Question No: 2 (Marks: 1) - Please choose one
_____requires the maximum number of I/O ports.

► Bus
► Star
► **Mesh (Page 29)**
► Ring

Question No: 3 (Marks: 1) - Please choose one
Headers are added at layers 1 and 7 of OSI model.

► True
► **False (Page 41)**

Question No: 4 (Marks: 1) - Please choose one
Trailer is only added at _____layer of OSI model.

► **data link (Page 41)**
► physical
► network
► application

Question No: 5 (Marks: 1) - Please choose one
A sine wave must be an analog signal.

► **True (Page 58)**
► False

Question No: 6 (Marks: 1) - Please choose one
If there is _____in voltage then the frequency is infinite.

► **instantaneous change (Page 61)**
► continuous change
► no change

Question No: 7 (Marks: 1) - Please choose one
The inversion of the level at 1 bit is called as _____

► NRZ-L
► **NRZ-I (Page 73)**

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► RZ

Question No: 8 (Marks: 1) - Please choose one
The last process in PCM is _____ digital data into digital signal.

► **encoding (Page 82)**
► decoding
► modulating

Question No: 9 (Marks: 1) - Please choose one
Amplitude in ASK is more resistive to EMI and Noise.

► True
► **False (Page 87)**

Question No: 10 (Marks: 1) - Please choose one
If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

► 5 KHz
► **10 KHz (Page 95)**
► 200 KHz
► 530 KHz

Question No: 11 (Marks: 1) - Please choose one
In _____ transmission, a start bit and a stop bit frame a character byte.

► **Asynchronous serial (Page 99)**
► Synchronous serial
► Parallel
► Asynchronous & Synchronous serial

Question No: 12 (Marks: 1) - Please choose one
Synchronous transmissions have _____.

► a start bit
► a stop bit
► gaps between bytes
► **none of the given (Page 99)**

Question No: 13 (Marks: 1) - Please choose one
Transmission media are usually categorized as _____

► Fixed or Unfixed
► **Guided or Unguided (Page 119)**
► Determinate or Indeterminate

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► Metallic or Nonmetallic

Question No: 14 (Marks: 1) - Please choose one
The RG number gives us information about _____.

► Twisted pairs
► **Coaxial cables (Page 125)**
► Optical fibers
► all of the given

Question No: 15 (Marks: 1) - Please choose one
Radio wave and microwave frequencies range from _____.

► 3 to 300 KHz
► **300 KHz to 300GHz (Page 132)**
► 3 KHz to 300 GHz
► 3 KHz to 3000 GHz

Question No: 16 (Marks: 1) - Please choose one
All of popular Fiber optic connectors are _____ shaped.

► Conical
► **Barrel (Page 131)**
► Circular
► Rectangular

Question No: 17 (Marks: 1) - Please choose one
In _____ method a signal can be directed in a straight from Antenna to antenna.

► **Line of sight (Page 134)**
► Ground propagation
► Sky propagation
► Microwaves

Question No: 18 (Marks: 1) - Please choose one
Amplifiers are used to _____the signal to heat.

► **Amplify (Page 142)**
► Rectify
► Testify
► Nullify

Question No: 19 (Marks: 1) - Please choose one
There are _____ basic categories of multiplexing.

► **3 (Page 148)**

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► 4
► 2
► 5

Question No: 20 (Marks: 1) - Please choose one
If a T-1 carries 8000 frames, the data rate is _____

► 2.544 Mbps
► **1.544 Mbps (Page 165)**
► 1.544 Kbps
► 1.544 Gbps

Question No: 21 (Marks: 1) - Please choose one
FTTC stands for _____

► flexible to the curb
► **fiber to the curb (Page 166)**
► fiber to the cable
► fiber to the center

Question No: 22 (Marks: 1) - Please choose one
Optical signals are multiplexed using _____ at switching office to create wider BW optical signals

► **WDM (Page 167)**
► FDM
► TDM
► MUX

Question No: 23 (Marks: 1) - Please choose one
Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

► Simple parity check
► **Two-dimensional parity check**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html
► CRC
► Checksum

Question No: 24 (Marks: 1) - Please choose one
If the ASCII character G is sent and the character D is received, what type of error is this?

► Single-bit
► Multiple-bit
► **Burst**

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http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

► Recoverable

Question No: 25 (Marks: 1) - Please choose one
Flow control is needed to prevent _____

► Bit errors
► Overflow of the sender buffer
► **Overflow of the receiver buffer. (Page 46)**
► Collision between sender and receiver

Question No: 26 (Marks: 1) - Please choose one
In data link layer, communication requires at least _____ devices working together

► 3
► **2 (Page 185)**
► 4
► 5

Question No: 27 (Marks: 1) - Please choose one
Data link control is composed of _____ important functions.

► 2
► **3 (Page 185)**
► 4
► 5

Question No: 28 (Marks: 1) - Please choose one
Error control is both error _____ and error _____

► **detection; correction (Page 186)**
► detection; deletion
► detection; avoidance
► detection; forwarding

Question No: 29 (Marks: 1) - Please choose one
ENQ/ACK stands for_____

► **Enquiry/ Acknowledgment (Page 187)**
► Enque/ Acknowledgment
► Enquist/ Acknowledgment
► none of the given

Question No: 30 (Marks: 1) - Please choose one
In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

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► Stop-and-wait
► Go-Back-N
► **Selective reject (Page 200)**
► Stop-and-wait & Go-back-N

Question No: 31 (Marks: 1) - Please choose one
Sliding window requires that data frames be transmitted _____

► **Sequentially (Page 199)**
► Frequently
► Synchronously
► Asynchronously

Question No: 32 (Marks: 1) - Please choose one
Which of the following combines features of the other two?

► **ZMODEM (Page 205)**
► YMODEM
► XMODEM
► None of given

Question No: 33 (Marks: 1) - Please choose one
BLAST stands for :

► **Blocked asynchronous transmission (Page 205)**
► Blocked synchronous transmission
► Barrel asynchronous transmission
► Below asynchronous transmission

Question No: 34 (Marks: 1) - Please choose one
HDLC is an acronym for _____.

► High-duplex line communication
► **High-level data link control (Page 210)**
► Half-duplex digital link combination
► Host double-level circuit

Question No: 35 (Marks: 1) – Please choose one
The HDLC _____ field defines the beginning and end of a frame.

► **Flag (Page 214)**
► Address
► Control
► FCS

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Question No: 36 (Marks: 1) – Please choose one
The shortest frame in HDLC protocol is usually the _____ frame.

- ► Information
- ► **Supervisory (Page 213)**
- ► Management
- ► None of the given

Question No: 37 (Marks: 1) - Please choose one
The PDU has no flag fields, no CRC, and no station address

- ► **TRUE (Page 220)**
- ► FALSE

Question No: 38 (Marks: 1) - Please choose one
_____ is the access protocol used by traditional Ethernet.

- ► **CSMA/CD (Page 222)**
- ► CSMA/CA
- ► Token Ring
- ► CSMA

http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No: 39 (Marks: 1) - Please choose one
Repeater is an amplifier, not a regenerator.

- ► True
- ► **False (Page 240)**

Question No: 40 (Marks: 1) - Please choose one
Bridges can divide a large _____ into smaller segments

- ► **Network (Page 241)**
- ► Packet
- ► Frame
- ► Address

CS601 Data Communication
Final Term Examination – Spring 2006

Question No. 1 Marks : 2
Which error detection method uses ones complement arithmetic?

- ➢ Simple parity check
- ➢ Two-dimensional parity check
- ➢ CRC
- ➢ **Checksum (Page 179)**

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Question No. 2 Marks : 2

In a time-domain plot, the vertical axis is the measure of _____.

- **Amplitude (Page 59)**
- Frequency
- Phase
- Time

Question No. 4 Marks : 2

Which topology requires a multipoint connection?

- Mesh
- Star
- **Bus (Page 31)**
- Ring

Question No. 8 Marks : 2

A timer is set when _____ is (are) sent out.

- A data frame
- **An ACK (Page 197)**
- A NAK
- An ARQ

Question No. 9 Marks : 2

If the data unit is 111111, the divisor 1010, and the remainder 110, what is the dividend at the receiver?

- 111111011
- **111111110**

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- 1010110
- 110111111

FINALTERM EXAMINATION

FALL 2006

Question No: 1 (Marks: 1) - Please choose one

OSI standard is practically implemented in the form of internet.

►TRUE

►FALSE

Question No: 2 (Marks: 1) - Please choose one

TCP/IP application layers combine the functions of OSI Application, Session and Transport layers.

►TRUE (Page 55)

►FALSE

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Question No: 3 (Marks: 1) - Please choose one
Unipolar use one voltage levels.
►**TRUE (Page 71)**
►FALSE

Question No: 4 (Marks: 1) - Please choose one
The material of core and cladding in fiber optic cable is same.
►TRUE
►**FALSE (Page 127)**

Question No: 5 (Marks: 1) - Please choose one
Burst error is easily corrected then bit error.
►TRUE
►FALSE

Question No: 6 (Marks: 1) - Please choose one
Set of rules governing communication is known as
►OSI model
►**Protocol (Page 08)**
►Medium

Question No: 7 (Marks: 1) - Please choose one
WDM(wave division multiplexing) deals with
► electric waves
►**light waves (Page 150)**
►both

Question No: 8 (Marks: 1) - Please choose one
A Null modem is a
►traditional modem
►**technique to connect two DTE (Page 106)**
►both

Question No: 9 (Marks: 1) - Please choose one
Router work on
►data link layer
►physical layer
►**network layer (Page 48)**

Question No: 10 (Marks: 1) - Please choose one
Poll/Select is a technique related with
►line control
►**line discipline (Page 187)**

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►error control

Final Term Examination – Spring 2005

Question No. 1 Marks : 02
In cyclic redundancy checking, what is the CRC?

►the divisor
►the quotient
►the dividend
►**the remainder**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No. 2 Marks : 02
In fiber optics the signal source is _____waves.

►**Light (Page 126)**
►Radio
►Very Low frequency
►Infrared

Question No. 3 Marks : 02
Each device has a dedicated point – to – point line configuration only with the two devices on either side of it.

►**Ring Topology (Page 33)**
►Star Topology
►Mesh Topology
►Tree Topology

Question No. 6 Marks : 02
Measures the relative strengths of two signals

►**Decibel (Page 141)**
►Bandwidth
►Wavelength
►Phase

Question No. 7 Marks : 02
Which multiplexing technique shifts each signal to a different carrier frequency?

►**FDM (Page 149)**

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►Synchronous TDM
►Asynchronous TDM
►None of the above

Question No. 8 Marks : 02
The _____of a signal is the width of the frequency spectrum.

►Amplitude
►**Bandwidth (Page 66)**
►Bit interval
►Phase

Final Term Examination – Spring 2005

Question No. 1
In cyclic redundancy checking, what is the CRC? **Marks : 02**

►the divisor
►the quotient
►the dividend
►**the remainder**
http://highered.mcgraw-hill.com/sites/0072515848/student_view0/chapter10/mixed_quiz.html

Question No. 2
In fiber optics the signal source is _____waves. **Marks : 02**

►**Light (Page 126)**
►Radio
►Infrared
►Very Low frequency

Question No. 3 Marks : 02
Each device has a dedicated point – to – point line configuration only with the two devices on either side of it.

►**Ring Topology (Page 33)**
►Mesh Topology
►Star Topology
►Tree Topology

Question No. 6
Measures the relative strengths of two signals **Marks : 02**

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► **Decibel (Page 141)**
► Bandwidth
► Phase
► Wavelength

Question No. 7 Marks : 02
Which multiplexing technique shifts each signal to a different carrier frequency?

► **FDM (Page 149)**
► Synchronous TDM
► Asynchronous TDM
► None of the above

Question No. 8
The _____ of a signal is the width of the frequency spectrum. Marks : 02

► Amplitude
► **Bandwidth (Page 66)**
► Bit interval
► Phase

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FINAL TERM EXAMINATION
SPRING 2011

What is the difference between guided and unguided media?

Answer: Click here for detail

Guided Media are those media that provide a conduit from one device to another. Guided Transmission Media uses a "cabling" system that guides the data signals along a specific path while Unguided Transmission Media consists of a means for the data signals to travel but nothing to guide them along a specific path. It passes through a vacuum; it is independent of a physical pathway.

Write Commercial advantage and characteristics of token bus

Answer: (Page 232)

- Other LANs are not suitable for this purpose
- Token Bus has no commercial application in data communications
- Token Ring allows each station to send one frame per turn
- Access method: Token passing

What is the difference between FDM and TDM

Answer: Click here for detail

1) FDM-Frequency division multiplexing where as TDM mean Time division Multiplexing.
2) In FDM spectrum is divided into frequency whereas in TDM divided into time slot.
3) FDM is used in 1st generation analog system whereas TDM is used in 2nd generation analog system.

Write the types transmission noise

Answer: (Page 143)

Thermal Noise: Due to random originally sent by TX
Induced Noise: Comes from sources like Motors and Appliances
Crosstalk: Effect of one wire on another
Impulse Noise: Spike (A signal with high energy in a very short period of timepower lines, lightening etc.

What is power bandwidth

Answer: Click here for detail

The **power bandwidth** of an amplifier is sometimes taken as the frequency range (or, rarely, the upper frequency limit) for which the rated power output of an amplifier can be maintained (without excessive distortion) to at least *half* of the full rated power.
OR

Power Bandwidth

Answer: (Page 67)

Frequency band in which 99% of the total power resides.

What does the CRC generator append to data unit? [2]

Answer: (Page 175)

Appending it to the end of the data must make the resulting bit sequence exactly divisible by the divisor

How much bandwidth for modem is required in case of FSK? [2]

Answer:

BW required for FSK is equal to the Baud rate of the signal plus the frequency shift.
Because of the limitations of voice-grade telephone lines, these modems are restricted to a bandwidth of about 3 kHz

What is even parity generator in VRC error detection mechanism? [2]

Answer: (Page 172)

Even parity generator counts the 1"s and appends the parity bit (1) to the end.

What is the difference between angle of incident and angle of reflection? [2]

Answer: (Page 126)

The difference between them is that Angle of refraction passes from less dense to denser medium whereas angle of incidence passes from more dense to less dense medium.

What is daisy chaining in 1Base 5 star Lan? [2]

Answer: (Page 229)

Slower speed in star lan can be increase by the use of DAISY CHAINING.

What is the responsibility of Application layer? [3]

Answer: Page 53

Enables the user either human or software to access the network
It provides user interface and support for the services such as Electronic mail, Remote File access and Transfer, Shared Database Management and other services

What is critical angle?

Answer: (Page 127)

We have a beam of light moving from a more dense to a less dense medium. We gradually increase the angle of incidence measured from vertical axis. As angle of incidence increases, so does the angle of refraction.
The angle at which refracted line lies on the horizontal axis is called **Critical Angle**

Hamming code-Redundancy bit (5 marks Q)

Answer: (Page 181)

Redundancy Bits (r)

- r must be able to indicate at least m+r+1 states
- m+r+1 states must be discoverable by r bits
- Therefore, $2r \geq m+r+1$

Muhammad Moaaz Siddiq

- If m=7, r=4 as 24 ≥ 7+4+1

Tree topology advantages (3 or 5 marks)

Answer: (Page 31)

- Because of Secondary Hub, More devices can be attached to a Central Hub and therefore increase the distance a signal can travel
- Enables Differentiated Services: Allows to prioritize communication, e.g. computers attached to one secondary hub can be given priority over others
- Therefore, TIME SENSITIVE data will not have to wait for access to the network
- Rest of the advantages are almost the same as STAR

Q #41: Whether VRC error detection method is used for single bit error or burst error. (2)

Answer: (Page 173)

VRC can detect all single bit errors

Can also detect Burst errors as long as the total number of bits changed is ODD

Q # 42: Which modem was first developed commercially in 1970? (2)

Answer: (Page 114)

Bell modems

-First commercial modems by Bell Telephone Co.

-Developed in early 1970s

Q # 45: Consider a major telecom company using RZ encoding for its signals

conversion. What will be the major problem faced by using such type of

encoding? (2)

Answer: (Page 75)

Any time, data contains long strings of 1's or 0's, Rx can loose its timing.

The only problem with RZ encoding is that it requires two signal changes to encode one bit and therefore occupies more BANDWIDTH

Q # 47: Geosynchronous Satellite? (3)

Answer: (Page 139)

- Line of sight propagation requires the sending and receiving antennas must be locked into each other
- To ensure continuous communication, satellites must move with the same speed as earth. So that they seem fixes w.r.t earth
- These satellites are called Geosynchronous Satellites

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FINAL TERM EXAMINATION 2011

Question#1
What are the Asynchronous protocols in data communication layer? ……Marks (10)
Answer: (Page 206)
Asynchronous protocols Treat each character in a Bit stream independently. Employed mainly in Modems.
Transmission does not require timing coordination; Timing is done by using extra bits

Different Asynchronous Protocols

XMODEM

- The first field is a One Byte start of header (SOH) field
- The second field is a two-byte Header.
  - –The first header byte , the Sequence number carries the Frame number
  - –The second header byte is used to check the validity of the sequence number
- The fixed data field holds 128 bytes of data
- The last field CRC checks for errors in the data field only

YMODEM

YMODEM is similar to X-MODEM with only the following major differences:

- 1024-Byte data unit
- Two CANs to abort Transmission
- ITU-T CRC-16 for Error Checking
- Multiple files can be sent simultaneously

ZMODEM :
Newer Protocol
Combines features of XMODEM and YMODEM.

BLAST

- Blocked Asynchronous Transmission
- More powerful than XMODEM
- Full Duplex
- Sliding Window Flow Control
- Allows transfer of Data and Binary Files

KERMIT

- Designed at Columbia University
- Most Widely used Asynchronous Protocol
- File Transfer protocol is similar in operation to XMODEM, with sender waiting for an NAK before it starts TX
- Kermit allows the transmission of control characters as Text

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Question#2
What is Frequency division multiplexing ?.....Marks (5)
Answer: (Page 149)

Frequency division multiplexing (FDM)

- An analog technique that can be applied when BW of the link is greater than the combined BW of the signals to be TX
- Signals generated by each sending device modulate difference carrier frequencies
- These modulated signals are then combined into a single Composite signal that can be transported by the link
- Carrier frequencies are separated by enough BW to accommodate the modulated signal
- These BW ranges are the channels through which the various signals travel

Question#4
What is stop and wait ARQ in error control ?....Marks (3)
Answer: Page 197
Stop-and-Wait is an extended form of flow control to include retransmission of data in case of Lost or Damaged frames.
There are four main features added in it.

1. Sending device keeps a copy of the last frame transmitted until it receives the ACK for that frame.
2. Both data and ACK frames are numbered 0 and 1 alternately.
3. A data 0 frame is acknowledged by a ACK 1 frame indicating that the receiver has received data 0 and is now expecting data 1 .
4. For retransmission to work, 4 features are added to the basic flow control mechanism.

Question#5
What is Interleaving ?.....Marks (3)
Answer: Page 153
Synchronous TDM is considered as a very fast rotating switch. When this switch opens in front of a device, the device has the opportunity to send a specific amount of data on to the path.
The switch moves from device to device at a constant rate and in a fixed order. This process is called INTERLEAVING. Interleaving can be done by BITS, BYTES or by any other DATA UNIT

Question#6
What is DSU in terms of digital services?.....Marks (3)
Answer: Page 163
DSU (Digital service unit) changes the rate of digital data created by the subscriber's device to 56 Kbps and encodes it in the format used by service provider. It used in dialing process and is more expensive than MODEM. But it has better speed, better quality and less susceptibility to noise.

Question#7
Which architecture of Ethernet developed by ITU_T and ANSI?..... Marks (2)
Answer: 236
FDDI (Fiber Distributed Data Interface)architecture of Ethernet developed by ITU_T and ANSI.

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Question#8
What is a spike in noise term?.....Marks (2)
Answer:143
Spike is a signal with high energy in a very short period of time
that comes from power lines, lightening etc,

Question#9
Answer: Page 172
What is even parity generator in VRC error detection mechanism?.....Marks (2)
Even parity generator counts the 1's and appends the parity bit (1) to the end.

Question#10
Compare line discipline methods ENQ/ACK and Poll/ Select?
Answer: Page 188-189
=>ENQ/ACK coordinates which device may start a transmission and whether or not the intended recipient is ready and enabled.
=> Using ENQ/ACK, a session can be initiated by either station on a link as long as both are of equal rank.
=> In both half-duplex and full-duplex transmission, the initiating device establishes the session.
=> In half duplex, the initiator then sends its data while the responder waits. The responder may take over the link when the initiator is finished or has requested a response.
=> In full duplex, both devices can transmit simultaneously once the session has been established.

POLL/SELECT:

=> The poll/select method of line discipline works with topologies where one device is designated as a primary station and the other devices are secondary stations.
=> Multipoint systems must coordinate several nodes, not just two.
=> The primary device controls the link and the secondary device follow sits instruction
It is up to the primary to determine which device is allowed to use the channel data given time

Why addressing is required in Poll / Select method and not required in ENQ/ACK method?3
Answer: (Page 190)
Addressing is required in Poll / Select method as it is a not point-to-point configuration, For the primary device in a multipoint topology to be able to identify and communicate with a specific secondary device, there must be some addressing, while ENQ/ACK method is a point-to-point method and for point-to-point configuration, there is no need for addressing.

What do you know about ITU-T Modems?3
Answer: (Page 114)
ITU-T modem :
V-series: Today's most popular modem standards
Bell modem compatible:
V.21/22/23/26/27/29

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Following abbreviations stands for what?3
Answer: (Page 224)
ARP……. (Address Resolution Protocol)
RARP…….. (Reverse Address Resolution Protocol)
ICMP …… (Internet Control Message Protocol)

Write names of Link Access Protocols developed by ITU-T?3
Answer: (Page 211)
LAPs: LAPB, LAPD, LAPM, LAPZ etc. all based on HDLC

Write the names of different types of noise in the medium?3
Answer: (Page 144)
Thermal Noise
Induced Noise
Crosstalk
Impulse Noise

Write down some disadvantages of star topology.3
Answer: (Page 30)
Although Cabling required is far less than Mesh
Still each node must be connected to a Hub , so Cabling is still much more

What are the two major classes of synchronous protocols at data link layer?2
Answer: (Page 206)
Character – Oriented Protocols
Bit – Oriented Protocols

Whether Hamming code is the technique used for error detection or error correction?2
Answer: (Page 181)
Hamming code is the technique used for error correction

Define Multiplexing? What is its advantage?2
Answer: (Page 147)
Set of techniques that allows the simultaneous transmission of multiple signals across a single data link
It allows multiple users to share total capacity of a Transmission Medium.

What is the purpose of dual ring?2
Answer: (Page 34)
Unidirectional traffic movement is overcome by dual ring technology.

Which modem was first developed commercially in 1970?2
Answer: (Page 114)
Bell modems

Write any two functions of physical layer?2
Answer: (Page 45)

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It defines characteristics of Interface between device and transmission Medium
It also defines the type of transmission medium
Physical Layer is also concerned with Line Configuration

FINAL TERM EXAMINATION
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Which one has more overhead, a repeater or a bridge? Explain your answer. [3]
Answer:
A bridge has more overhead than a repeater. A bridge processes the packet at two layers; a repeater processes a frame at only one layer. A bridge needs to search a table and find the forwarding port as well as to regenerate the signal; a repeater only regenerates the signal. In other words, a bridge is also a repeater (and more); a repeater is not a bridge

Define high frequency [HF] and super high frequency [SHF], which devices uses these frequencies [3]
Answer: Page 135 and 136
High frequency.
HF uses ionospheric propagation. These frequencies move into the ionosphere where the density difference reflects them back on earth.
It is used for Citizen's Band Radio, International Broadcasting, Military Communication, Telephone, Telegraph and Fax

Super high frequency.
SHF waves are TX using mostly line-of-sight and some Space propagation.
It is used for Terrestrial and Satellite Microwave and Radar Communication devices.

Write all steps of checksum method. [3]
Answer: (Page 179)
o The sender subdivides data units into equal segments of 'n' bits(16 bits)
o These segments are added together using one's complement
o The total (sum) is then complemented and appended to the end of the original data unit as redundancy bits called CHECKSUM
o The extended data unit is transmitted across the network
o The receiver subdivides data unit as above and adds all segments together and complement the result
o If the intended data unit is intact, total value found by adding the data segments and the checksum field should be zero o If the result is not zero, the packet contains an error & the receiver rejects it

Differentiate internet and the internet? [3]
Answer: (Page 240)
INTERNET
- *An internet* is a generic term used to mean an interconnection of individual networks
- To create an internet, we need networking devices called routers and gateways
- An internet is different from the Internet
- Internet is the name of a specific worldwide network

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What is the differences in between bit oriented and character oriented protocols [5]
Answer: (Page 206)

Character – Oriented Protocols

- Also called **Byte- Oriented Protocol**
- These protocols interpret a transmission frame or packet as a succession of characters, each usually composed of one byte
- All control information is in the form of an existing character encoding system

Bit – Oriented Protocols

- Character –Oriented Protocols are not as efficient as bit – oriented protocols and are seldom used
- They are easy to comprehend and employ the same logic as bit-oriented protocols
- Their study will provide the basis for studying the other data link layer protocols
- IBN's BSC is the best known character oriented protocol

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2011

Question#1
What is the formula to calculate the number of redundancy bits required to correct a bit error in a given number of data bits? [2]
Answer: **Click here for detail**
Messages(frames) consist of m data (message) bits, yielding an n=(m+r)-bit codeword.

Question#2
What is R G rating of coaxial cable?
Answer:- (Page 126)
Different coaxial cable designs are categorized by their Radio government (
RG) ratings
Each cable defined by RG rating is adapted for a specialized function:
RG-8

- Used in Thick Ethernet

RG-9

- Used in Thick Ethernet

RG-11

- Used in Thick Ethernet

RG-58

- Used in Thin Ethernet

RG-59

- Used for TV

Question#3
What are the advantages of thin Ethernet?
Answer: (Page 228)
The **advantages** of thin Ethernet are:

1. reduced cost
2. ease of installation

Because the cable is lighter weight and more flexible than that used in Thick net

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Question#4
What is the difference between a unicast, multicast, and broadcast address? [3]
Answer: **Click here for detail**
Broadcast: transmitting a packet that will be received by every device on the network
Unicast: the sending of information packets to a single destination
Multicast: delivery of information to a group of destinations.

Question#5
T lines are designed for Digital data how they can be used for Analog Transmission?
Answer: (Page 166)
o DS-1 requires 8 Kbps of overhead
o To understand this overhead, let's examine format of a 24-voice channel frame
o Frame used on T-1 line is usually 193 bits divided into 24 slots of 8 bits each + 1 bit for synchronization (24*8+1=193)
o 24 segments are interleaved in one frame
o If a T-1 carries 8000 frames, the data rate is 1.544 Mbps (193 * 8000=1.544 Mbps) which is capacity of the line

Question#6
What are the three types of Guided Media?
Answer: (Page 120)

1. Coaxial cable
2. Twisted-pair cable
3. Fiber optic cable.

Question#7
Why do we need Inverse Multiplexing? [5]
Answer: (Page 159)

- An organization wants to send data, voice and video each of which requires a different data rate
- To send voice it needs 64Kbps,
- To send data, it needs 128 Kbps link
- To send video it may need 1.544 Mbps link
- It can lease a 1.544 Mbps line from a common carrier and only use it fully for sometime
- Or it can lease several separate channels of lower data rates
- Voice can be sent over any of these channels
- Data & Video can be broken into smaller portions using Inverse Multiplexing and TX

Question#8
Describe method of checksum briefly?
Answer: (Page 180)
o The sender subdivides data units into equal segments of 'n' bits(16 bits)
o These segments are added together using one's complement
o The total (sum) is then complemented and appended to the end of the original data unit as redundancy bits called CHECKSUM
o The extended data unit is transmitted across the network
o The receiver subdivides data unit as above and adds all segments together and complement the result
o If the intended data unit is intact, total value found by adding the data segments and the checksum field should be zero o If the result is not zero, the packet contains an error & the receiver rejects it

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Question#9
Explain Asynchronous Time Division Multiplexing in detail? Also discuss its advantages over synchronous TDM?
Answer:
Asynchronous time-division multiplexing (ATDM) is a method of sending information that resembles normal TDM, except that time slots are allocated as needed dynamically rather than pre-assigned to specific transmitters. ATDM is more intelligent and has better bandwidth efficiency than TDM. asynchronous time-division multiplexing comprising receive circuits (CRl/i) supplying cells received via input links, transmit circuits (CTl/j) transmitting retransmitted cells on output links, a buffer memory (MT) storing the received cells and delivering the cells to be retransmitted and a buffer memory addressing device (SMT) including a write address source (SAE) and a read address source (fsl/j).

Advantages asynchronous TDM:
In asynchronous TDM, the timeslots are not fixed. They are assigned dynamically as needed.
The objective would be to switch from one user to another user whenever the one user is idle, and to asynchronously time multiplex the data. With such an arrangement, each user would be granted access to the channel only when he has a message to transmit. This is known as an Asynchronous Time Division Multiplexing System (ATDM). A segment of a typical ATDM data stream is shown in Figure 2. The crucial attributes of such a multiplexing technique are:
1. An address is required for each transmitted message, and
2. Buffering is required to handle the random message arrivals.

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Question No: 31 (Marks: 2)
What is hybrid topology?
Answer:
Hybrid topology is a kind of topology, In which Several topologies combined in a larger topology

Question No: 32 (Marks: 2)
What is combined station of HDLC?
Answer: (Page 211)
A combined station is one of a set of connected peer devices programmed to behave either as a primary or as a secondary depending on the nature and the direction of the transmission.

Question No: 33 (Marks: 2)
What kind of error is undetectable by the checksum?
Answer: (Page 180)
Error is invisible if a bit inversion is balanced by an opposite bit inversion in the corresponding digit of another segment

Question No: 34 (Marks: 2)
What's the name of the telephone service in which there is no need of dialing?
Answer: (Page 161)

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In Analog Leased Service there is no need of dialing

Question No: 35 (Marks: 3)
How Bit Rate & Baud rate are related?
Answer: (Page 85)
Bit rate equals the baud rate times the no. of bits represented by each signal unit.
The baud rate equals the bit rate divided by the no. of bits represented by each signal shift.
Bit rate is always greater than or equal to Baud rate

Question No: 36 (Marks: 3)
Following abbreviations stands for what?
Answer: (Page244)

1. ARP: Address Resolution Protocol
2. RARP: Reverse Address Resolution Protocol
3. ICMP: Internet Control Message Protocol

Question No: 37 (Marks: 3)
Differentiate between Polling and Selecting.
Answer: (Page 189)
If the primary wants to receive data, it asks the second-arise if they have anything to send, This is called Polling
If the primary wants to send data, it tells the target secondary to get ready to receive, This function is called Selecting.

Question No: 38 (Marks: 3)
T lines are designed for Digital data how they can be used for Analog Transmission?
Answer: repeat

Question No: 39 (Marks: 5)
What is the difference between character oriented and bit oriented protocols?
Answer: repeat

Question No: 40 (Marks: 5)
Write down the function of Primary-Secondary communication in line discipline.
Answer: (Page 189)

1. Poll method works with topologies where one device is designed as a Primary station and the other devices are Secondary stations
2. The primary device controls the link and the secondary device follow sits instruction
3. **It** is up to the primary to determine which device is allowed to use the channel at a given time.
4. The primary therefore is always the initiator of the a session
5. Whenever a multipoint link consists of a primary device and multiple secondary devices using a single TX line , all exchanges must be made through the primary device even when the ultimate destination is a secondary device

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Question No: 31 (Marks: 2)
What kind of error is undetectable by the checksum? [2]
Answer: Page 180 (repeated)

Question No: 32 (Marks: 2)
What are properties of signals?
Answer: (Page 17)
Capable of being propagated over TX. Medium ,Interpretable as data at the Receiver

Question No: 33 (Marks: 2)
Whether in Asynchronous or Synchronous TDM, addressing is used?
Answer: (Page 158)
Addressing is used only in Asynchronous TDM.

Question No: 34 (Marks: 2)
What is the basic purpose of Router?
Answer: Click here for detail
Basic purpose of Router:
A router is a device that extracts the destination of a packet it receives, selects the best path to that destination, and forwards data packets to the next device along this path. They connect networks together; a LAN to a WAN for example, to access the Internet.

Question No: 35 (Marks: 3)
Why we need a Null Modem?
Answer: (Page 106)
A null modem provide DTA –DTE interface w/o DCEs

Question No: 36 (Marks: 3)
Count LRC for the following bits?
10011010 10100101 1101 0110

Question No: 37 (Marks: 3)
What are the categories of multiplexing?
Answer: Page 148
There are three catogaries of multiplxing
FDM
TDM
Have a two other catagories
Synchronous and asyrounce
WDM

Question No: 38 (Marks: 3)
What are the three purposes of control frames at data link layer?
Answer: (Page 209)
Control frames serve 3 purposes:

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Establishing Connections
Maintaining Flow and Error Control during Data Transmission
Terminating Connection

Question No: 39 (Marks: 5)
Compare line discipline methods ENQ/ACK and Poll/ Select?
Answer: (Page 188-189)
=>ENQ/ACK coordinates which device may start a transmission and whether or not the intended recipient is ready and enabled.
=> Using ENQ/ACK, a session can be initiated by either station on a link as long as both are of equal rank.
=> In both half-duplex and full-duplex transmission, the initiating device establishes the session.
=> In half duplex, the initiator then sends its data while the responder waits. The responder may take over the link when the initiator is finished or has requested a response.
=> In full duplex, both devices can transmit simultaneously once the session has been established.

POLL/SELECT:

=> The poll/select method of line discipline works with topologies where one device is designated as a primary station and the other devices are secondary stations.
=> Multipoint systems must coordinate several nodes, not just two.
=> The primary device controls the link and the secondary device follow sits instruction
It is up to the primary to determine which device is allowed to use the channel data given time

Question No: 40 (Marks: 5)
What is the difference between character oriented and bit oriented protocols?
Answer: repeat

FINAL TERM EXAMINATION
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Question No: 31 (Marks: 2)
What are the advantages of a multipoint connection over a point-to-point connection?
Answer:
Point-to-point connection is limited to two devices, where else more than two devices share a single link in multipoint connection. Multipoint connection can be used for fail-over and reliability**.**

Question No: 32 (Marks: 2)
What's the name of the telephone service in which there is no need of dialing.
Answer: (Page 164)
DSS (digital data service) is the telephone service in which there is no need of dialing.

Question No: 33 (Marks: 2)
Which type of frames is present in BSC frames?
Answer: (Page 206)

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There are two types of frames that are present in BSC.

1. Control Frames and
2. Data Frames

Question No: 34 (Marks: 2)
What methods of line discipline are used for peer to peer and primary secondary communication?
Answer: (Page 187)
Line discipline is done in two ways:

1. ENQ/ACK (Enquiry Acknowledgement)

   This is used for peer to peer communication.
2. Poll/ Select
   This method is used for primary secondary communication.

Question No: 35 (Marks: 3)
How does the checksum checker know that the received data unit is undamaged? [3]
Answer: (Page 179)
Checksum Checker or generator:
The sender subdivides data units into equal segments of 'n' bits(16 bits)

1. These segments are added together using one's complement.
2. The total (sum) is then complemented and appended to the end of the original data unit as redundancy bits called CHECKSUM.
3. The extended data unit is transmitted across the network.
4. The receiver subdivides data unit and adds all segments together and complement the result.
5. If the intended data unit is intact, total value found by adding the data segments and the checksum field should be zero.
6. If the result is not zero, the packet contains an error & the receiver rejects it.

Question No: 36 (Marks: 3)
Which one has more overhead, a repeater or a bridge? Explain your answer. [3]
Answer:
A bridge has more overhead than a repeater. A bridge processes the packet at two layers; a repeater processes a frame at only one layer. A bridge needs to search a table and find the forwarding port as well as to regenerate the signal; a repeater only regenerates the signal. In other words, a bridge is also a repeater (and more); a repeater is not a bridge.

Question No: 37 (Marks: 3)
Write down disadvantages of Ring Topology.
Answer: (Page 33)
Disadvantages of Ring Topology

- Unidirectional Traffic
  - A break in a ring I.e. a disabled station can disable the entire network

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- Can be solved by using:
  - Dual Ring or
  - A switch capable of closing off the Break

Question No: 38 (Marks: 3)
How parity bits are counted in VRC error detection method technique in case of odd parity generator?

Question No: 39 (Marks: 5)
How are lost acknowledgment and a lost frame handled at the sender site? [5]
Answer:
A lost or damaged frame is handled in the same way by the receiver; when the receiver receives a damaged frame, it discards it, which essentially means the frame is lost. The receiver remains silent about a lost frame and keeps its value of R.

Question No: 40 (Marks: 5)
Explain Protocol Data Unit (PDU)?
Answer: (Page 221)
Protocol Data Unit (PDU)
The data unit in the LLC level is called the Protocol Data unit (PDU)
The PDU contains 4 fields familiar from HDLC:
–A destination service access point (DSAP)
–A source service access point (SSAP)
–A control field
–An Information field

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CS 601 DATA COMMUNICATION

Question # 1 of 10

In FDDI, THT stands for:

- Token Hash Timer
- Tier Holding Timer
- Target Holding Timer
- **Token Holding Timer**

Question # 2 of 10

The DSAP and SSAP are addresses used by ____to identify the protocol stack.

- Network
- **MAC**
- LLC
- None of the above

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Question # 3 of 10

Repeaters work on the ____Layer/Layers

- Data Link
- **Physical**
- Network
- All of the above

Question # 4 of 10

Bridge is _____ Layer Device

- **Data Link**
- Physical
- Network
- None of the above

Question # 5 of 10

On the transport layer of TCP/IP suit_____ protocols are used

- TCP & IP
- **TCP & UDP**

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Question # 6 of 10

Application layer of TCP/IP suit is equivalent of _____layers of OSI Model

- Application, Presentation and Transport
- Application, Session and Transport
- **Application, Presentation and Session**
- None of the above

Question # 7 of 10

A Repeater does not allow us to extend the physical length of network

- True
- **False**

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Question # 8 of 10

Shortest frame in HDLC protocols is usually the ____ frame.

- Information
- Supervisory
- Management
- **None of the above**

Question # 9 of 10

Repeater is device

- Layer three
- Intelligent
- Unintelligent
- **None of the above**

Question # 10 of 10

_____ is HDLC's error detection field.

- Flag
- BCC
- BSC
- **FCS**

Top

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Question # 1 of 10 (Start time: 08:42:52 PM) Total Marks: 1

Router works on the _____ layers.

Select correct option:

Network.

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Physical & Data Link.

All of above.

None of above.

Question # 2 of 10 (Start time: 08:44:07 PM) Total Marks: 1

ZMODEM protocol combines the features of _____

Select correct option:

XMODEM

YMODEM

BOTH XMODEM & YMODEM

None of the above

Question # 3 of 10 (Start time: 08:44:40 PM) Total Marks: 1

Like 10 Base 5, 10 Base 2 is a _____ Topology LAN

Select correct option:

Bus

Star

Ring

Mesh

Question # 4 of 10 (Start time: 08:45:23 PM) Total Marks: 1

Repeater is _____ Device.

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Select correct option:

Layer three.

Intelligent.

Unintelligent.

None of above.

Question # 5 of 10 (Start time: 08:46:19 PM) Total Marks: 1

In token ring frame, the size of the token is _____

Select correct option:

4 bytes

3 bytes

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2 bytes

1 bytes

Question # 6 of 10 (Start time: 08:47:34 PM) Total Marks: 1

The Placing position of a repeater in the network is _____.

Select correct option:

Unimportant

Important.

MC090404560 : Ana Jamil

Question # 7 of 10 (Start time: 08:48:25 PM) Total Marks: 1

The address field of a frame in HDLC protocol contains the address of the _____ station.

Select correct option:

Primary

Secondary

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Tertiary

Primary and secondary

Question # 8 of 10 (Start time: 08:49:26 PM) Total Marks: 1

Repeater is an amplifier

Select correct option:

True

False

Question # 9 of 10 (Start time: 08:49:52 PM) Total Marks: 1

In BSC data frame, header comes before _____ and after _____

Select correct option:

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SYNs, STX

ITB,STX

STX, SYNs

ETX, BCC

The PDU has no flag fields, no CRC, and no station address

Select correct option:

True

False

MC090400610 : Azka Mashkoor

Question # 1 of 10 (Start time: 08:53:54 PM) Total Marks: 1

Repeaters are _____ Devices

Select correct option:

Networking

Internetworking

Intelligent

None of above

Question #2

The ____ is HDLC's error detection field.

Select correct option:

Flag

BCC

BSC

FCS

Question # 3 of 10 (Start time: 08:55:20 PM) Total Marks: 1

The HDLC _____ field defines the beginning and end of a frame.

Select correct option:

Flag

Address

Control

FCS

Question # 4 of 10 (Start time: 08:55:42 PM) Total Marks: 1

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group

Select correct option:

last

third

second

first

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Question # 5 of 10 (Start time: 08:56:41 PM) Total Marks: 1

BSC stands for _____

Select correct option:

Binary Search Protocols

Bit Synchronization class

Binary Synchronous communication

Bit synchronous protocol

Question # 6 of 10 (Start time: 08:57:58 PM) Total Marks: 1

The shortest frame in HDLC protocol is usually the _____ fram

Select correct option:

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Information

Supervisory

Management

None of the given

Question # 7 of 10 (Start time: 08:58:44 PM) Total Marks: 1

Information field contains the user data in _____ and network management information in a _____.

Select correct option:

S- Frame, U- Frame

U- Frame, I- Frame

I-Frame, U-Frame

S-frame, U-Frame

Question # 8 of 10 (Start time: 08:59:18 PM) Total Marks: 1

Bridge is _____ Device.

Select correct option:

Layer one.

Intelligent.

Unintelligent.

None of above.

Question # 9 of 10 (Start time: 09:00:41 PM) Total Marks: 1

RARP stands for Reverse Address Resolution Protocol.

Select correct option:

True

False

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Transport Layer

1: One of the responsibilities of the transport layer protocol is to create a _____ communication.

a. host-to-host b. process-to-process
c. node-to-node d. none of the above

The correct answer is b

2: UDP is called a _____transport protocol.

a. connectionless, reliable b. connection-oriented, unreliable
c. connectionless, unreliable d. none of the above

The correct answer is c

3: UDP does not add anything to the services of IP except for providing _____ communication.

a. node-to-node b. process-to-process
c. host-to-host d. none of the above

The correct answer is b

4: UDP is an acronym for _____.

a. User Delivery Protocol b. User Datagram Procedure
c. User Datagram Protocol d. none of the above

The correct answer is c

5: Although there are several ways to achieve process-to-process communication, the most common is through the _____ paradigm.

a. client-server b. client-client c. server-server d. none of the above

The correct answer is a

6: The local host and the remote host are defined using IP addresses. To define the processes, we need second identifiers called _____.

a. UDP addresses b. transport addresses
c. port addresses d. none of the above

The correct answer is c

7: The ports ranging from 49,152 to 65,535 can be used as temporary or private port numbers. They are called the _____ ports.

a. well-known b. registered c. dynamic d. none of the above

The correct answer is c

8: In the sending computer, UDP receives a data unit from the _____ layer.

a. application b. Transport c. IP d. none of the above

The correct answer is a

9: In the sending computer, UDP sends a data unit to the _____ layer.

a. application b. Transport c. IP d. none of the above

The correct answer is c

10: UDP and TCP are both _____ layer protocols.

a. data link b. network c. transport d. none of the above

The correct answer is c

11: Which of the following functions does UDP perform?

a. process-to-process communication b. host-to-host communication

c. end-to-end reliable data delivery d. none of the above

The correct answer is a

12: When the IP layer of a receiving host receives a datagram, _____.

a. delivery is complete b. a transport layer protocol takes over

c. a header is added d. none of the above

The correct answer is b

13: UDP needs the _____ address to deliver the user datagram to the correct application process.

a. port b. Application c. Internet d. none of the above

The correct answer is a

14: A port address in UDP is _____bits long.

a. 8 b. 16 c. 32 d. any of the above

The correct answer is b

15: Which of the following does UDP guarantee?

a. flow control b. connection-oriented delivery

c. flow control d. none of the above

The correct answer is d

16: The source port address on the UDP user datagram header defines _____.

a. the sending computer b. the receiving computer

c. the process running on the sending computer d. none of the above

The correct answer is c

17: The combination of an IP address and a port number is called a _____.

a. transport address b. network address

c. socket address d. none of the above

The correct answer is c

18: To use the services of UDP, we need _____ socket addresses.

a. four b. two c. three d. none of the above

The correct answer is b

19: UDP packets are called _____.

a. user datagrams b. segments c. frames d. none of the above

The correct answer is a
20: UDP packets have a fixed-size header of _____ bytes.
a. 16 b. 8 c. 40 d. none of the above
The correct answer is b
21: UDP packets are encapsulated in _____.
a. an Ethernet frame b. an TCP segment
c. an IP datagram d. none of the above
The correct answer is c
22: UDP uses _____ to handle outgoing user datagrams from multiple processes on one host.
a. flow control b. multiplexing
c. demultiplexing d. none of the above
The correct answer is b
23: UDP uses _____ to handle incoming user datagrams that go to different processes on the same host.
a. flow control b. multiplexing c. demultiplexing
d. none of the above
The correct answer is c
24: TCP is a _____protocol.
a. stream-oriented b. message-oriented c. block-oriented
d. none of the above
The correct answer is a
25: TCP allows the sending process to deliver data as a _____of bytes and allows the receiving process to obtain data as a _____ of bytes.
a. message; message b. stream; stream
c. block; block d. none of the above
The correct answer is b
26: Because the sending and the receiving processes may not write or read data at the same speed, TCP _____.
a. speeds up the slower process b. slows down the faster process
c. uses buffers d. none of the above
The correct answer is c
27: TCP groups a number of bytes together into a packet called a _____.
a. user datagram b. Segment c. datagram d. none of the above
The correct answer is b
28: TCP is a _____ protocol.
a. connection-oriented b. connectionless
c. both a and b d. none of the above
The correct answer is a
29: TCP is a(n) _____ transport protocol.
a. unreliable b. best-effort delivery
c. reliable d. none of the above
The correct answer is c
30: TCP uses _____ to check the safe and sound arrival of data.
a. an acknowledgment mechanism b. out-of-band signalling
c. the services of another protocol d. none of the above

The correct answer is a

31: The bytes of data being transferred in each connection are numbered by TCP. The numbering starts with a _____.

a. 0 b. 1 c. randomly generated number d. none of the above

The correct answer is c

32: TCP assigns a sequence number to each segment that is being sent. The sequence number for each segment is the number of the _____ byte carried in that segment.

a. first b. last c. middle d. none of the above

The correct answer is a

33: Communication in TCP is _____.

a. simplex b. half-duplex c. full-duplex d. none of the above

The correct answer is c

34: The value of the acknowledgment field in a segment defines the number of the _____byte a party expects to receive.

a. first b. last c. next d. none of the above

The correct answer is c

35: The acknowledgment number is _____.

a. independent b. randomly generated c. cumulative d. none of the above

The correct answer is c

36: The value of the window size is determined by _____.

a. the sender b. the receiver c. both the sender and receiver
d. none of the above

The correct answer is b

37: The inclusion of the checksum in the TCP segment is _____.

a. optional b. mandatory c. at the discretion of the application program
d. none of the above

The correct answer is b

38: A TCP segment is encapsulated in _____.

a. an IP datagram b. an Ethernet frame
c. a UDP user datagram d. none of the above

The correct answer is a

39: Connection establishment in TCP is called _____ handshaking.

a. two-way b. four-way c. one-way d. none of the above

The correct answer is d

40: A SYN segment cannot carry data; it consumes _____ sequence number(s).

a. no b. one c. two d. none of the above

The correct answer is b

41: A SYN + ACK segment cannot carry data; it consumes _____ sequence number(s).

a. no b. three c. two d. none of the above

The correct answer is d

42: An ACK segment, if carrying no data, consumes _____ sequence number(s).

a. no b. one c. two d. none of the above

The correct answer is a

45: The FIN segment consumes ____ sequence numbers if it does not carry data.

a. two b. three c. no d. none of the above

The correct answer is d

46: The FIN + ACK segment consumes _____ sequence number(s) if it does not carry data.
a. two b. three c. one d. none of the above
The correct answer is c
47: In TCP, one end can stop sending data while still receiving data. This is called a _____.
a. half-close b. half-open c. one-way termination
d. none of the above
The correct answer is a
48: A(n) _____ machine is a machine that goes through a limited number of states.
a. infinite state b. finite state c. both a and b d. none of the above
The correct answer is b
49: _____ control regulates the amount of data a source can send before receiving an acknowledgment from the destination.
a. Error b. Flow c. Congestion d. none of the above
The correct answer is b
50: To accomplish flow control, TCP uses a _____ window protocol.
a. limited-size b. sliding c. fixed-size d. none of the above
The correct answer is b
51: TCP sliding windows are _____ oriented.
a. packet b. Segment c. Byte d. none of the above
The correct answer is c
52: ACK segments consume _____ sequence number(s) and _____ acknowledged.
a. no; are not b. one; are not c. no; are d. none of the above
The correct answer is a
53: TCP delivers _____ out-of-order segments to the process.
a. all b. no c. some d. none of the above
The correct answer is b
54: IP is responsible for _____ communication while TCP is responsible for _____ communication.
a. host-to-host; process-to-process b. process-to-process; host-to-host
c. process-to-process; network-to-network d. none of the above
The correct answer is a
56: Multiply the header length field by _____ to find the total number of bytes in the TCP header.
a. 2 b. 4 c. 6 d. none of the above
The correct answer is b
57: Urgent data requires the urgent pointer field as well as the URG bit in the _____ field.
a. control b. offset c. sequence number d. none of the above
The correct answer is a
58: The options field of the TCP header ranges from 0 to _____ bytes.
a. 10 b. 20 c. 40 d. none of the above
The correct answer is c
59: If the ACK value is 200, then byte _____ has been received successfully.
a. 199 b. 200 c. 201 d. none of the above

The correct answer is a

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Chapter : Chapter 14 : Wireless LANs

1: IEEE has defined the specifications for a wireless LAN, called _____, which covers the physical and data link layers.
a. IEEE 802.3 b. IEEE 802.5 c. IEEE 802.11 d. IEEE 802.2
The correct answer is c
2: In IEEE 802.11, a ___ is made of stationary or mobile wireless stations and an optional central base station, known as the access point (AP).
a. ESS b. BSS c. CSS d. none of the above
The correct answer is b
3: In IEEE 802.11, a BSS without an AP is called an _____.
a. an ad hoc architecture b. an infrastructure network
c. either (a) or (b) d. neither (a) nor (b)
The correct answer is a
4: In IEEE 802.11, a BSS with an AP is sometimes referred to as _____.
a. an ad hoc architecture b. an infrastructure network
c. either (a) or (b) d. neither (a) nor (b)
The correct answer is b
5: In IEEE 802.11, communication between two stations in two different BSSs usually occurs via two _____.
a. BSSs b. ESSs c. APs d. none of the above
The correct answer is c
6: In IEEE 802.11, a station with _____ mobility is either stationary (not moving) or moving only inside a BSS.
a. no-transition b. BSS-transition c. ESS-transition d. none of the above
The correct answer is a
7: In IEEE 802.11, a station with _____mobility can move from one BSS to another, but the movement is confined inside one ESS.
a. no-transition b. BSS-transition c. ESS-transition d. none of the above
The correct answer is b
8: In IEEE 802.11, a station with _____ mobility can move from one ESS to another.
a. no-transition b. BSS-transition c. ESS-transition d. none of the above
The correct answer is c
9: In IEEE 802.11, _____ is an optional access method that can be implemented in an infrastructure network (not in an ad hoc network).
a. DCF b. PCF c. either (a) or (b) d. neither (a) nor (b)
The correct answer is b
10: In IEEE 802.11, when a frame is going from one station in a BSS to another without passing through the distribution system, the address flag is _____
a. 00 b. 01 c. 10 d. 11
The correct answer is a
11: In IEEE 802.11, when a frame is coming from an AP and going to a station, the address flag is _____.
a. 00 b. 01 c. 10 d. 11
The correct answer is b
12: In IEEE 802.11, when a frame is going from a station to an AP, the address flag is _____.
a. 00 b. 01 c. 10 d. 11
The correct answer is c
13: In IEEE 802.11, when a frame is going from one AP to another AP in a wireless distribution system, the address flag is _____
a. 00 b. 01 c. 10 d. 11
The correct answer is d
14: The IEEE 802.11 standard for wireless LANs defines two services: _____ and _____.
a. BSS; ASS b. ESS; SSS c. BSS; ESS d. BSS; DCF
The correct answer is c
15: In IEEE 802.11, the access method used in the DCF sublayer is _____.
a. ALOHA b. CSMA/CA c. CSMA/CD d. none of the above
The correct answer is b
16: In IEEE 802.11, the access method used in the PCF sublayer is _____.
a. contention b. controlled c. polling d. none of the above

The correct answer is c
17: In IEEE 802.11, the _____ is a timer used for collision avoidance.
a. NAV b. BSS c. ESS d. none of the above
The correct answer is a
18: In IEEE 802.11, the MAC layer frame has _____ fields.
a. four b. five c. six d. none of the above
The correct answer is d
19: In IEEE 802.11, the addressing mechanism can include up to _____addresses.
a. four b. five c. six d. none of the above
The correct answer is a
20: The original IEEE 802.11, uses _____.
a. FHSS b. DSSS c. OFDM d. either (a) or (b)
The correct answer is d
21: The IEEE 802.11a, uses _____.
a. FHSS b. DSSS c. OFDM d. either (a) or (b)
The correct answer is c
22: The IEEE 802.11b, uses _____.
a. FHSS b. DSSS c. OFDM d. either (a) or (b)
The correct answer is b
23: The IEEE 802.11g, uses _____.
a. FHSS b. DSSS c. OFDM d. either (a) or (b)
The correct answer is c
24: The original IEEE 802.11, has a data rate of _____Mbps.
a. 1 b. 6 c. 11 d. 22
The correct answer is a
25: IEEE 802.11a, has a data rate of _____Mbps.
a. 1 b. 2 c. 6 d. none of the above
The correct answer is c
26: IEEE 802.11b, has a data rate of _____Mbps.
a. 1 b. 2 c. 5.5 d. none of the above
The correct answer is c
27: IEEE 802.11g, has a data rate of _____Mbps.
a. 1 b. 2 c. 11 d. 22
The correct answer is d
28: The IEEE 802.11 wireless LANs use _____ types of frames.
a. four b. five c. six d. none of the above
The correct answer is d
29: Bluetooth is a _____ technology that connects devices (called gadgets) in a small area.
a. wired LAN b. wireless LAN c. VLAN d. none of the above
The correct answer is b
30: A Bluetooth network is called a _____.
a. piconet b. scatternet c. bluenet d. none of the above
The correct answer is a
31: In Bluetooth, multiple _____ form a network called a _____.
a. scatternet; piconets b. piconets: scatternet
c. piconets: bluenet d. bluenet; scatternet
The correct answer is b
32: A Bluetooth network consists of _____ primary device(s) and up to ____ secondary devices.
a. one; five b. five; three c. two; six d. one; seven
The correct answer is d
33: The RTS and CTS frames in CSMA/CA ____ solve the hidden station problem. The RTS and CTS frames in CSMA/CA ____ solve the exposed station problem.
a. can; cannot b. cannot; can c. can; can d. cannot; cannot
The correct answer is a
34: In Bluetooth, the current data rate is ____Mbps
a. 2 b. 5 c. 11 d. none of the above
The correct answer is d
35: In Bluetooth, the _____ layer is roughly equivalent to the physical layer of the Internet model.
a. radio b. baseband c. L2CAP d. none of the above
The correct answer is a
36: In Bluetooth, the _____layer is roughly equivalent to the MAC sublayer in LANs.
a. radio b. baseband c. L2CAP d. none of the above
The correct answer is b
37: In Bluetooth, the L2CAP sublayer, is roughly equivalent to the LLC sublayer in LANs.
a. radio b. baseband c. L2CAP d. none of the above
The correct answer is c
38: The access method in Bluetooth is _____.
a. FDMA b. TDD-TDMA c. CDMA d. none of the above
The correct answer is b

39: In Bluetooth, the _____ link is used when avoiding latency (delay in data delivery) is more important than integrity (error-free delivery).
a. SCO b. ACL c. ACO d. SCL
The correct answer is a
40: In Bluetooth, the _____ link is used when data integrity is more important than avoiding latency.
a. SCO b. ACL c. ACO d. SCL
The correct answer is b
41: Bluetooth uses _____method in the physical layer to avoid interference from other devices or other networks.
a. DSSS b. FHSS c. FDMA d. none of the above
The correct answer is b

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Quiz # 5

Question # 1
The shortest frame in HDLC protocol is usually the _____ frame

☐ Information ☐ Supervisory ☐ Management ☐ **None of the given**

Question # 2
_____ sub-layer , resolves the contention for the shared media

☐ **MAC** ☐ LLC ☐ Physical ☐ None of the above

Question # 3
The process to send control information in the information field of I-Frame along with data is called _____

☐ Acknowledgment management ☐ Piggy Forwarding ☐ AckTrick
☐ **Piggybacking**

Question # 4
The DSAP and SSAP are addresses used by _____ to identify the protocol stacks

☐ Network ☐ MAC ☐ **LLC** ☐ All of above

Question # 6
Router is _____ Device.

Layer one . Intelligent. Unintelligent. **None of above**.

Question # 7
The repeater works at _____ Layer of OSI model

Data Link layer **Physical layer** Transport Layer Network Layer

Question # 8
Bridges are _____ Devices

Networking Internetworking All of above None of above

Question # 9
In Multi station Access Unit (MAU) Individual automatic hubs are combined in to a router

True False

Question # 10
The address field of a frame in HDLC protocol contains the address of the _____ station.

Primary Secondary Tertiary **Primary and secondary**

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FINALTERM EXAMINATION
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CS601- Data Communication

Question No: 1 (Marks: 1) - Please choose one

There are how many factors on which the performance of a network depends?

► Three

► Five

► Four

► Two

Question No: 2 (Marks: 1) - Please choose one

_____requires the maximum number of I/O ports.

► Bus

► Star

► Mesh

► Ring

Question No: 3 (Marks: 1) - Please choose one

Headers are added at layers 1 and 7 of OSI model.

► True

► False

Question No: 4 (Marks: 1) - Please choose one

Trailer is only added at _____layer of OSI model.

► data link

► physical

► network

► application

Question No: 5 (Marks: 1) - Please choose one

A sine wave must be an analog signal.

► True

► False

Question No: 6 (Marks: 1) - Please choose one

If there is _____in voltage then the frequency is infinite.

► instantaneous change

► continuous change

► no change

Question No: 7 (Marks: 1) - Please choose one

The inversion of the level at 1 bit is called as _____

► NRZ-L

► NRZ-I

► RZ

Question No: 8 (Marks: 1) - Please choose one

The last process in PCM is _____ digital data into digital signal.

► encoding

► decoding

► modulating

Question No: 9 (Marks: 1) - Please choose one

Amplitude in ASK is more resistive to EMI and Noise.

► True

► False

Question No: 10 (Marks: 1) - Please choose one

If FCC regulations are followed, the carrier frequencies of adjacent AM radio stations are _____ apart.

► 5 KHz

► 10 KHz

► 200 KHz

► 530 KHz

Question No: 11 (Marks: 1) - Please choose one

In _____ transmission, a start bit and a stop bit frame a character byte.

► Asynchronous serial

► Synchronous serial

► Parallel

► Asynchronous & Synchronous serial

Question No: 12 (Marks: 1) - Please choose one

Synchronous transmission have _____.

► a start bit

► a stop bit

► gaps between bytes

► none of the given

Question No: 13 (Marks: 1) - Please choose one

Transmission media are usually categorized as _____

► Fixed or Unfixed

► Guided or Unguided

► Determinate or Indeterminate

► Metallic or Nonmetallic

Question No: 14 (Marks: 1) - Please choose one

The RG number gives us information about _____.

► Twisted pairs

► Coaxial cables

► Optical fibers

► all of the given

Question No: 15 (Marks: 1) - Please choose one

Radio wave and microwave frequencies range from _____.

► 3 to 300 KHz

► 300 KHz to300 KHz to 3 GHz

► 3 KHz to 300 GHz

► 3 KHz to 3000 GHz

Question No: 16 (Marks: 1) - Please choose one

All of popular Fiber optic connectors are _____ shaped.

► Conical

► Barrel

► Circular

► Rectangular

Question No: 17 (Marks: 1) - Please choose one

In _____ method a signal can be directed in a straight from Antenna to antenna.

► Line of sight

► Ground propagation

► Sky propagation

► Microwaves

Question No: 18 (Marks: 1) - Please choose one

Amplifiers are used to _____the signal to heat.

► Amplify

► Rectify

► Testify

► NUllify

Question No: 19 (Marks: 1) - Please choose one

There are _____ basic categories of multiplexing.

► 3

► 4

► 2

► 5

Question No: 20 (Marks: 1) - Please choose one

If a T-1 carries 8000 frames, the data rate is _____

► 2.544 Mbps

► 1.544 Mbps

► 1.544 Kbps

► 1.544 Gbps

Question No: 21 (Marks: 1) - Please choose one

FTTC stands for _____

► flexible to the curb

► fiber to the curb

► fiber to the cable

► fiber to the center

Question No: 22 (Marks: 1) - Please choose one

Optical signals are multiplexed using _____ at switching office to create wider BW optical signals

► WDM

► FDM

► TDM

► MUX

Question No: 23 (Marks: 1) - Please choose one

Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

► Simple parity check

► Two-dimensional parity check

► CRC

► Checksum

Question No: 24 (Marks: 1) - Please choose one

If the ASCII character G is sent and the character D is received, what type of error is this?

► Single-bit

► Multiple-bit

► Burst

► Recoverable

Question No: 25 (Marks: 1) - Please choose one

Flow control is needed to prevent _____

► Bit errors

► Overflow of the sender buffer

► Overflow of the receiver buffer

► Collision between sender and receiver

Question No: 26 (Marks: 1) - Please choose one

In data link layer, communication requires at least _____ devices working together

► 3

► 2

► 4

► 5

Question No: 27 (Marks: 1) - Please choose one

Data link control is composed of _____ important functions.

► 2

► 3

► 4

► 5

Question No: 28 (Marks: 1) - Please choose one

Error control is both error _____ and error _____

► detection; correction

► detection; deletion

► detection; avoidance

► detection; forwarding

Question No: 29 (Marks: 1) - Please choose one

ENQ/ACK stands for_____

► Enquiry/ Acknowledgment

► Enque/ Acknowledgment

► Enquist/ Acknowledgment

► none of the given

Question No: 30 (Marks: 1) - Please choose one

In _____ ARQ, if a NAK is received, only the specific damaged or lost frame is retransmitted.

► Stop-and-wait

► Go-Back-N

► Selective repeat

► Stop-and-wait & Go-back-N

Question No: 31 (Marks: 1) - Please choose one

Sliding window requires that data frames be transmitted _____

► Sequentially

► Frequently

► Synchronously

► Asynchronously

Question No: 32 (Marks: 1) - Please choose one

Which of the following combines features of the other two.

► ZMODEM

► YMODEM

► XMODEM

► None of given

Question No: 33 (Marks: 1) - Please choose one

BLAST stands for :

► Blocked asynchronous transmission

► Blocked synchronous transmission

► Barrel asynchronous transmission

► Below asynchronous transmission

Question No: 34 (Marks: 1) - Please choose one

HDLC is an acronym for _____.

► High-duplex line communication

► High-level data link control

► Half-duplex digital link combination

► Host double-level circuit

Question No: 35 (Marks: 1) - Please choose one

The HDLC _____ field defines the beginning and end of a frame.

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- ► Flag
- ► Address
- ► Control
- ► FCS

Question No: 36 (Marks: 1) - Please choose one

The shortest frame in HDLC protocol is usually the _____ frame.

- ► Information
- ► Supervisory
- ► Management
- ► None of the given

Question No: 37 (Marks: 1) - Please choose one

The PDU has no flag fields, no CRC, and no station address

- ► TRUE
- ► FALSE

Question No: 38 (Marks: 1) - Please choose one

_____ is the access protocol used by traditional Ethernet.

- ► CSMA/CD
- ► CSMA/CA

► Token Ring

► CSMA

Question No: 39 (Marks: 1) - Please choose one

Repeater is an amplifier, not a regenerator.

► True

► False

Question No: 40 (Marks: 1) - Please choose one

Bridges can divide a large _____ into smaller segments

► Network

► Packet

► Frame

► Address

Question No: 41 (Marks: 2)

Stop-and- wait ARQ has two control variables S and R. What are their functions? [2]

Go-back-n ARQ
Selective Reject ARQ

Question No: 42 (Marks: 2)

What's the name of the telephone service in which there is no need of dialing.

Question No: 43 (Marks: 2)

What is meant by Transmission Impairments?

Question No: 44 (Marks: 3)

How does the checksum checker know that the received data unit is undamaged? [3]

Question No: 45 (Marks: 3)

What is Geosynchronous satellite?

.

Question No: 46 (Marks: 3)

Following abbreviations stands for?

1. ARP
2. RARP
3. ICMP

Question No: 47 (Marks: 5)

Name and discuss briefly the bits in the HDLC control field. [5]

Question No: 48 (Marks: 5)

Describe method of checksum briefly?

Question No: 49 (Marks: 5)

What is satellite communication?

Question No: 50 (Marks: 10)

In how many ways TDM can be implemented? Describe any one with example.

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MIDTERM EXAMINATION
Spring 2009
CS601- Data Communication (Session - 1)

Question No: 1 (Marks: 1) - Please choose one

In RS 422 Balanced mode two lines carry _____ signals which are not identical to each other.

- ► same
- ► different
- ► digital
- ► analog

Question No: 2 (Marks: 1) - Please choose one

The _____ generates the data and passes it along with any control information to a _____.

- ► DTE; DCE
- ► DCE; DTE
- ► DCE; node
- ► DTE; application

Question No: 3 (Marks: 1) - Please choose one

In _____ transmission, a start bit and a stop bit frame a character byte.

- ► Asynchronous serial
- ► Synchronous serial

► Parallel
► Asynchronous & Synchronous serial

Question No: 4 (Marks: 1) - Please choose one

In _____ transmission, bits are transmitted simultaneously, each across its own wire.

► Asynchronous serial
► Synchronous serial
► Parallel
► Asynchronous & Synchronous serial

Question No: 5 (Marks: 1) - Please choose one

Asynchronous transmission is _____

► slow
► costly
► non-effective
► fast

Question No: 6 (Marks: 1) - Please choose one

In _____ transmission the timing of the signal is unimportant.

► Asynchronous
► Synchronous
► Polar
► Bi-polar

Question No: 7 (Marks: 1) - Please choose one

In 8QAM each signal shift or one baud represents _____.

► 4 bits
► 2 bits
► 5 bits
► 3 bits

Question No: 8 (Marks: 1) - Please choose one

PCM is the first process of PAM.

► True
► False

Question No: 9 (Marks: 1) - Please choose one

Bi phase encoding is a type of bipolar encoding in which we use two voltage levels.

► True
► False

Question No: 10 (Marks: 1) - Please choose one

The amplitude of a digital signal depends upon the_____ to represent a bit.

► phase

► voltage
► wavelength

Question No: 11 (Marks: 1) - Please choose one

Time domain plot show changes in signal phase with respect to time.

► True
► False

Question No: 12 (Marks: 1) - Please choose one

OSI model was developed prior to TCP/IP model**.**

► True
► False

Question No: 13 (Marks: 1) - Please choose one

The _____ layer is the layer closest to the transmission medium.

► physical
► data link
► network
► transport

Question No: 14 (Marks: 1) - Please choose one

Data chunk at data link layer is called_____

► frame
► packet
► datagram

Question No: 15 (Marks: 1) - Please choose one

The internet model consists of _____ layers.

► three
► two
► five
► seven

Question No: 16 (Marks: 1) - Please choose one

_____representation of links that connect nodes is called as physical topology.

► geometrical
► logical
► physical

Question No: 17 (Marks: 1) - Please choose one

_____ is a multipoint topology.

► Ring
► Mesh
► Tree

► Bus

Question No: 18 (Marks: 1) - Please choose one

In mesh topology, if there are five nodes then there will be _____ links.

► 5
► 10
► 15
► 20

Question No: 19 (Marks: 1) - Please choose one

Non proprietary standard is also termed as de facto standard.

► True
► False

Question No: 20 (Marks: 1) - Please choose one

Effective network mean that the network has fast delivery, timeliness and

► high bandwidth
► duplex transmission
► accurate transmission
► low bandwidth

Question No: 21 (Marks: 2)

What is purpose of distributed processing?

Question No: 22 (Marks: 3)

What is HDB3.

Question No: 23 (Marks: 5)

Differentiates between the following terms. [10 marks]

(a) Syntax and Semantics of protocol.
(b) Network management and exchange management.
(c) Monolithic and structured**.**

Question No: 24 (Marks: 10)

Differentiate between the following terms.

a) Frequency spectrum and bandwidth.

(b) **Bandwidth and throughput**.

(c) Bit interval and bit rate.

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FINALTERM EXAMINATION
Fall 2009
CS601- Data Communication

Ref No: 1139834
Time: 120 min
Marks: 85

Student Info	
Student ID:	**BC080402322**
Center:	
Exam Date:	

For Teacher's Use Only									
Q No.	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**Total**
Marks									
Q No.	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	
Marks									
Q No.	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	
Marks									
Q No.	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	
Marks									
Q No.	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	
Marks									
Q No.	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	
Marks									
Q No.	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	
Marks									

Q No.	57	58	59						
Marks									

Question No: 1 (Marks: 1) - Please choose one

An unauthorized user is a network _____ issue.

- ► Performance
- ► Reliability
- ► **Security**
- ► All of the given

Question No: 2 (Marks: 1) - Please choose one

Which is not an element of protocol

- ► semantics
- ► timing
- ► **communication service module**

Question No: 3 (Marks: 1) - Please choose one

_____ is a multipoint topology.

- ► Ring
- ► Mesh
- ► Tree
- ► **Bus**

Question No: 4 (Marks: 1) - Please choose one

Unidirectional traffic movement is overcome by dual ring technology.

► **True**

► False

Question No: 5 (Marks: 1) - Please choose one

Physical layer define characteristics of interface between device and _____

► **transmission medium**

► another device

► another peer physical layer at other side

► modem

Question No: 6 (Marks: 1) - Please choose one

_____ layer deals with syntax and semantics of information exchange.

► **presentation**

► session

► application

► physical

Question No: 7 (Marks: 1) - Please choose one

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