

Cs601 MCQS FILE FOR FINAL TERM by IQRA AZHAR

Cs601

Final Term File

Subjective and objective

**Paid Assignment Quiz Lms handling
services Available**

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Ytube

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Question 1

Fiber Cable _____ uses thin coaxial cable.

10Base5 10Base-F 10Base-T **10BASE2**

Question 2

Fiber Cable _____ uses thick coaxial cable.

10Base2 10Base-F **10BASE5** 10Base t

Question 3_

_____ was used as the medium in 10 Base-T.

Thick Coaxial Cable Thin Coaxial Cable **Twisted-pair cabling** D. Two Mode

Question 4

In the context of Ethernet address, the source address is always a -- address

Multicast

Question 5

ff:FF:FF:FF:FF:FF is a _____ link layer address.

Unicast B. Multiplex C. Multicast **D.Broadcast**

Question 6

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**

Question 7 In the context of Ethernet address, the source address is always a address.

Multicast Broadcast **Unicast** 128 Broad Cast

Question No:8

a3:34:45:11:92:F1 is a _____ link layer address.

Unicast B. Multiplex C. Multicast D.Broadcast

Question

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For Carrier Sense Multiple Access/Collision Detection (CSMA/CD) we need a restriction on the → Collision Size

Signal Size **Frame Size** Station Size **Unidirectional**

Question No 9

Time domain plot show changes in signal phase with respect to time.
true **false**

Question No 10 Each station in the Token Ring regenerates the frame.

True False

Question No: 11 Zero crossing bandwidth is also called as equivalent noise bandwidth. True **False**

Question No 12: In Y-MODEM Multiple files can be sent simultaneously **True**
False

Question 13 The level of signal is always positive in NRZ encoding. True **False**

Question 14 TROPOSHERE is the layer of atmosphere above the troposphere but below space True **False**

Question 15

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

4 **0** 1 2

Question 16

Radio wave transmission utilizes different types of propagation.

Two Three Four **Five**

Question No 19

BSC supports transmission using flow control.

Full-duplex, Stop and wait

Question No 20

What is the period of a Sine wave having frequency of 5 Hz?

0.2 0.1 0.5 0.3

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Question 21 The BNC-T connector is a T-shaped device with ports

Three **Two** Four Five

Question No 22 Ethernet Address is of----- bytes

4 **6** 8 12

Question 23

YMODEM has _____ Byte of data unit. A. 256 B. 128 C. 512 D. **1024**

Question 24

There are _____ basic categories of multiplexing. A. 2 B. **3** C. 7 D. 5

Question 25

AM signal requires _____ the BW of original signal A. Half B. Same C. **Twice** D. Three Times

Question No26

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 27

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

Question No 28 A sine wave is defined by _____ characteristics. A. 2 B. **3**
C. 4 D. 5

Question No:29 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

Question 30 Radio wave transmission utilizes _____ different types of propagation.

A. Two B. Four C. **Five** D. Three

Question No:31 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

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Question No: 32 In Pure ALOHA, the vulnerable time is ----- the frame transmission time. → Same as **Two times** Three times Four times

Question No: 33 __ _ was used as a medium in 10 Base-T

Thick coaxial Cable Think coaxial Cable **Twisted Pair**

Question No:34

In order to find hamming distance between two pair of words, _____ logical operation is used. A. OR B. **XOR** C. AND D. NAND

Question 35

In , a station monitors the medium after it sends a frame to see if the transmission was successful. CSMA None of Given **CSMA/CA** CSMA/CD

Question No:36

In _____, each station is allocated a time slot during which it can send data. A.CDMA B. NDMA C. **TDMA** D. FDMA

Question 37

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

TCP B. UDP C. IP and TCP D. **IP and UDP**

Question 38

PCs _____ is an Authentication Protocol, which uses two-step process to authenticate user information.

PAP B. LCP C. CHAP D.ICMP

Question 39

Independent In Linear Block codes, _____ of two valid code words creates another valid code word. A. OR B. NOR C. **XOR** D. AND

Question 40

Presentation _____ is an Authentication Protocol, which is used by the PPP to authenticate passwords. A. LCP B. **PAP** C. ICMP D.CHAM

Question41

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

_____.

A. IP B. TCP C. PPP D. UDP

Question42

PAP and CHAP are used by _____ as Authentication Protocols. A. PPP B. SMTP C. ICMP D. TCP/IP

Question43

Which one of the following is not a Channelization Protocol?

CSMA

TDMA

FDMA

CDMA

Question 44

For More _____ each band is reserved for a specific station, and it belongs to the station all the time.

CSMA

CDMA

FDMA

TDMA

Question 45

Which one of the following is a Random-Access protocol?

TDMA

ALOHA

CDMA/CA

CDMA/CD

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Question 46

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

Polling B. **Reservation** C. Token Passing D. All of the given

Question 47

other devices are secondary stations.

A. **Polling** B. Token Passing C. Reservation D. None of the given

Question 48

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

Polling

Reservation

Token Passing

. All of the given

Question 49

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

Polling

Reservation

Token Passing

Port Forwarding

Question 50

RM _____ works with topologies in which one device is designated as a primary station and the other devices are secondary stations.

Token

Polling

Reservation D. None of the given

Question 51

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In the _____ method, the stations in a network are organized in a logical ring.

Polling

.Reservation

Token-passing

None of these

Question 52

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

p-Persistent

B. Non-persistent

C. All of the given

D. 1 persistent method

Question 53

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

Port Forwarding Reservation Polling Token Passing

Question 54

In _____, each station sends a frame whenever it has a frame to send.

Pure ALOHA B. Slotted ALOHA C. None of the given D. Integrated ALOHA

Question 55

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

A. Upper ALOHA B. Lower ALOHA C. Slotted ALOHA For More Help
D. Integrated

Question 56

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Virtual-Circuit Networks and datagram networks are the sub categories of _____.

Packet-switched networks

Circuit Switched Networks

Message switched networks

Question 57

Both circuit and message switched networks

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

Question 58

In CSMA/CA, _____ is the amount of time divided into slots.

Collided Window Interframe Window Fragmented Window **Contention Window**

Question 59

takes data from one high speed line and breaks it into portions.

Multiplexing Inverse multiplexing Inverse subtraction Inverse addition

Question 60

In circuit switching total Delay is combination of Connection Time, Data transfer time and _____.

Switching time Receiving time Acknowledgement time **Connection tear down time**

Question 61

_____ works with topologies in which one device is designated as a primary station and the

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Question No 62

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

Frame size B. Signal Size C. Station Size D. Collision size

Question No63

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

Fast Ethernet has a data rate of _____Mbps

A. **100** B. 200 C. 300 D. 400

Question No 64

Implementations, maximum medium length of 10 Base-F was _____meters.

A. 150 B. 500 C. 1000 D. **2000**

Question No 65

When we represent the data in CDMA, if a station is idle then it sends_____.

0 B. -1 C. Infinity D. 1

Question No 66 DSL stands for _____.

data switched line

Digital switched line

data subscriber line

Digital subscribe line

Question No 67 _____ transmission technology (based on Ethernet) provides a data rate of 1 billion bits per second.

Question No 68 Fast Ethernet B. **Gigabit Ethernet** C. Standard Ethernet D.

10BASE-T Ethernet In random access method, when two or more than two nodes transmit frames at the same time then _____.

Question No68 All the frames in collision are lost

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A Collision has no effect on frames C. All the frames in collision survives D. None of the these

Question No 69 Normally the value of Kmax in pure ALOHA is

_____.

25 10 **15** 30

Question No 70 Transmission Control Protocol is a(n) _____ layer protocol.

Session B. **Transport** C. Application D. None of these

Question No 71

POTS stand for _____?

Plain Old Time Sharing B. Plain Old Telephone Set C. Plain Old Telephone Service D. **Plain old telephone system**

Question No 72

Collisions in CSMA/CA are avoided through _____.

The Interframe Space B. The Contention Window C. Acknowledgements D. All of the given

Question No 73 Ethernet Address is of _____ bytes.

4 B. **6** C. 8 D. 12

Question No 74 MAC stand for _____?

Main Access Control **B. Media Access Control** C. Media Access Controller D. Mandatory Access

Question No 75 Control 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 76 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 77 ALOHA In Pure ALOHA, the vulnerable time is _____ the frame transmission time.

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Same as B. Three times C. **Two times** D. Four times

Question No 78 No matter whether the link is dedicated or broadcast, data link control (DLC) layer provides services between -----.

Virtual LANs B. Ethernet links C. **Two adjacent nodes** D. Source and destination

Question No 79 Error detection and correction are the services provided by _____ layer.

Session layer B. Physical layer C. **Data link layer** D. Application layer

Question No80 In circuit switching, when two end devices “A” and “B” connects with each other they send _____ request.

Setup B. Inquiry C. Switching D. **Acceptance**

Question No 81switched network consists of a series of interlinked _____ called switches.

A.Root B. **Nodes** C. Points D. System

Question No 82 In case of higher data rate, the number of impacted bits will be _____.

Zero B. Lower C. **Higher** D. Normal

Question No 83 _____ 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 84 Data Link layer receives services from the _____ layer.

Session **B. Physical** C. Transport D. Application

Question No 85

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

10 bytes B. 100 bytes C. 500 bytes D. **1500 bytes**

Question No 86 In virtual circuit approach when a frame enters a switch and when it leaves a switch its VCI_____.

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Always Changes B. **Remain the Same** C. Sometimes Changes D. Sometimes Remain Same

Question No 87 To control and manage the transfer of data, a protocol called Point to Point Protocol (PPP) is used at the _____ layer.

Physical B. Data link C. **Network** D. Presentation

Question No 88 Error correction is more _____ than the error detection.

Easy B. Useless C. **Difficult** D. Informal

Question No 89 A local telephone network use _____ network.

Line switched B. Circuit switched C. Bit switched D. **Packet switched network**

Question No 90 The _____ protocol uses both flow and error control.
A. ICMP B. HDLC C. TCP/IP D. Stop-and-wait

VCI address is _____ address in virtual circuit approach.

Private B. Variable C. **Global**

Question No 91

A virtual-circuit network operates on _____ layer.

A. **Network** B. Physical C. Datalink D. Application

Question No 92

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.

Question No 93

Constant The _____ is the number of signal elements sent per unit time.

Period B. **Bit rate** C. Data rate D.

Question No 94

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Signal rate _____ is not a function of Data Link Control. A. Framing B. **Modulation** C. Error Control D. Flow Control
Congestion Control is a feature of _____ layer(s). A. Network B. Transport C. Data Link D. **All mentioned.**

Question No95

_____ and _____ are the two types of addressing in virtual circuit approach.

A. **Local, Global** B. Private, Public C. Variable, Dynamic D. Dependent,

Question No 96 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 No97 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

Question No 98 In circuit switched networks we have low efficiency but minimal _____. A. Errors B. Delay C. **Speed** D. Throughput

Question No 99 Data link layer is divided into _____ sub layers.

A. **Two** B. Five C. Three D. Seven

Question No 101 CHAP is an Authentication Protocol, which uses _____ process to authenticate user information.

Two-way B. Four-way C. Five-way D. **Three-way**

Question No 102 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 103 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 104 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.

Question No 105 S-frames in High-Level Data Link Control (HDLC) are only used to transfer _____ information.

Control B. Original C. User data D. Redundant

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Question No 106

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

Question No:107

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 108 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:108

The type of ALOHA which improves the efficiency of Pure ALOHA is A. Upper ALOHA B. Lower ALOHA C. **Slotted ALOHA** D. Integrated ALOHA

Question No109 :..... is the process of converting digital data to digital signals. A. CSMA/CD B. CSMA/CA C. **Line coding** . Segmentation

Question 110

If the Hamming distance between sent and received code word is _____, then it shows that received data is corrupted. A. **$\neq 0$** B. =1 C. =0 D. $\neq 1$

Question No:111

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 112

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

Question113 CDMA stands for _____.

A. Code Data Multiple Access B. Carrier Data Multiple Access C. **Code Division Multiple Access** D. Carrier Division Multiple Access

Question 114

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In Block coding we divide our message into blocks of k bits called as A.
Passwords B. Cross word Code words D. Data words

Question No 115 Stop-and-Wait protocol is used for _____
A. Error control only Flow control only C. Both flow and error control D. Neither
flow nor error control

Question No 116

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

Question No 117

_____ is responsible for governing node to node communication. A.
Session Layer B. Data link layer C. Application Layer D. Presentation Layer

Question 118

Media Access Control (MAC) and Data Link Control (DLC) constitute
_____ layer. A. Physical B. Network C. Data link D. Transport

Question 119

In character oriented protocol, each character of frame is encoded using-----
coding system. A. NRZ B. ASCII C. Unicode D. Bipolar

Question No 120 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

Question 121

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

Question 122

In MAC, when nodes use a multi-point or broadcast link, we need a
_____ to coordinate access to the link.

Telnet Protocol B. Application Protocol C. Data encrypt Protocol D. Multiple-
access protocol

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Question 123

Like 10 Base 5, 10 Base 2 is a _____ topology

LAN. A. Ring B. Mesh C. Star **D. Bus**

Question 124

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 125

Analog signals are referring to be _____ A. Discrete B. Periodic C. Continuous D. None of these Question No:126

There are _____ types of serial transmission.

A 3 B. 4 **C. 2** D. None of the given

Question 127

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 128

_____ is the rate of change with respect to time. A. Voltage B. Time C. Frequency D. **Amplitude** Question No:129

_____ relatively measures the strength of two signals. A. Signal rate B. Bit rate C. Decibel D. **Pulse Rate**

Question 130

Central Hub in a Tree is an _____. A. **Active hub** B. passive hub C. Both D. None of these Question 131

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

0s are B. 1s are C. a polynomial is D. a CRC remainder is

Question 132

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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

Question 133

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 134

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 135

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 136

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

Question 137

A fiber -optic cable transmit signals in the form of _____.

- A. Light B. Sound C. Wave D. None of the given

Question 138

The inversion of the level at 1 bit is called as _____.

- A. NRZ-L B. NRZ-I C. RNR-L D. NRA-L

Question 139

Data is transmitted using light through a _____ cable.

- A. coaxial B. fiber-optic C. microwave D. twisted

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Question 140

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 141

In ASK, both _____ and _____ remain constant.

A. Amplitude, phase B. Frequency, Phase C. Amplitude, Samples D. Amplitude, Frequency

Question 142

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 143

The most common type of connector used by coaxial cable is _____.

A. BNC B. RJ-45 C. RJ-11 D. RJ-57

Question 144

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 145

In _____, both peak amplitude and frequency remains constant as the phase changes

. A. PSK B. QAM C. None of these D. Both PSK & QAM

Question 146 There are _____ types of guided media. A. 2 B. 3 C. 4 D. 5

Question 147

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

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Question 148

Sampling means measuring _____ of signal at equal intervals

- A. **Amplitudes** B. Frequencies C. Phases D. None of these

Question 149

A sine wave is _____. A. periodic and discrete B. aperiodic and discrete
C. **periodic and continuous** D. aperiodic and continuous

Question 150

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 151

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 152

_____ category of coaxial cable is used for Cable TV. A.RG-58 B. RG-59 C. **RG-11** D.RG

Question 153

Radio is an example of _____ signal conversion.

- Analog to analog** B. Analog to digital C. Digital to Digital D. Digital to analog

Question 154

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 155

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

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Question 156 Which of the following is not a characteristic of a sine wave? A. Phase B. Frequency C. Amplitude D. **Segmentation**

Question 157

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**

Question 158 _____ 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 159

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 160

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

Question 161 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:162 Human voice is example of _____ signal. A. Digital B. **Analog** C. Discrete D. None of the given

Question No:163

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 164

A _____ modem is used to connect two DTEs directly.

A. DSL B. Cable C. **NULL** D. None of the given

Question 165 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:166 _____ 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:167 _____ is sometimes called the bit rate. A. signal rate B. Data rate C. pulse rate D. modulation rate

Question No:168

_____ category of coaxial cable is used for thin Ethernet. A. RG-1 B. RG-58 C. RG-59 D. RG-47

Question 169
Which one is not the function of data link layer? A. Flow control B. Error control C. Line discipline D. Network control

Question No:170

_____ mode of serial transmission guarantees fixed rate of data. A. Synchronous B. Asynchronous C. Isochronous D. Metachronous

Question No:171

Data Link layer provides services to the _____ layer.

A. Session B. Network C. Transport D. Application

Question No:172

The logical connection between the peer layers is _____ connection. A. Direct B. Indirect C. Physical D

Question 173

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,

Question No 174

WDM stands for _____. A. Wideband De-Modulation B. Worst Data Manipulation C. Wavelength Division Multiplexing D. None of the given

Question No175 _____ 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

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Question No:176 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:177

Question No:178 Asynchronous transmission is _____. A. Fast B. Slow C. Costly D. None effective

Question No:179

Time division multiplexing is used in _____ systems. A. Analog B. Hybrid C. Digital Automated Question No:180

At the Application layer, object/information is in the form of _____. A. Frame B. Packet C. Segment D. Message

Question No:181

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:182 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:183 In selective-reject ARQ, only the specific damaged or lost frame is-- A. Selected B. Rejected C. Forwarded D. Retransmitted

Question No:184 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:185 Quadrature Amplitude Modulation (QAM) is the combination of _____ and _____. A. FSK, PSK B. PSK, FSK C. ASK, PSK D. ASK, FSK

Question No:186

In frequency shift keying, _____ remain(s) constant. A. Frequency B. Amplitude C. Both Amplitude and Phase D. Both Phase and Frequency

Question No:187

We can have _____ different groups with a 4 bit block

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Question No:188 Line Configuration refers to the way two or more devices attach to a A. Path B. **Link** C. Router D.Circuit

Question No:189 Low pass channel has _____ bandwidth between two stations. A. Shared B. Infinite C. **Dedicated** D. Multiplexed

Question No:190 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:191 Quantization is a method of assigning _____ values in a specific range to sampled instances. A.Binary B. Positive C. Negative D.Integral

Question No:192 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

Question No:193

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:194

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:195 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:196

Time domain shows changes in _____.

Time B. time w.r.t signal amplitude C. **signal amplitude w.r.t time** D. All of the given

Question No:197 In analog transmission, the base signal is called the _____. A. Digital signal B. Analog signal C. **Carrier Signal** D. Modulated signal

Question No:198 DLC in Data Link Layer stands for _____. A. Data Line Code B. **Data Link Control** C. Demand Link Coordination D. Divide

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Question 199

Two or more computers connected so that they can communicate with each other and share information is called a _____. A. Satellite B. Protocol C.

Network D. Broadcast

Question No:200 Analog refers to something that is continuous in _____.

A. **Time** B. Both C. Space Frequency D. None of the given

Question No:201

In an analog hierarchy to carry voice channels, a group can carry _____ voice channels. A. 60 B. 12 C. 25 D. **20**

Question No:202 In _____ a dedicated communication path is established between two stations through the nodes of the network **Circuit switching** Packet switching

Question No:203

STP is more expensive than UTP and is less susceptible to noise. **True** False

Question No:204: Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching True **False**

Question No:205

Like Data link layer, _____ is also responsible for Flow control. Session Layer **Transport Layer** Question No:206

Which of the following is most affected by noise? A. PSK B. **ASK** C. FSK D. QAM

Question No 207 In ASK correct formula for calculating the bandwidth ia as _____.

$B=(1+d)S$ $B=(1*d)S$

Question No:208 _____ is normally used where speed is priority in data transfer. **Serial data transmission**

Question No:209

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

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Question No:210

Guard bands are used in _____ multiplexing technique, to avoid overlapping of frequency bands assigned to each user. **FDM**

Question 211

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

Question No:222

In Ethernet, the source address field in the MAC frame is the _____ address **Previous station physical**

Question No 223

In each character protocol each character of frame is encoded using _____ coding system . **Bit-oriented** Question No 224

In _____ collision are avoided by deferring transmission even if the channel is idle **The interframe space** Question No225 _____uses fiber-optic cable **10base-F**

Question No 226 Mac address is of _____ **48** bits

Question No 227 SONET stands for **Synchronous optical network**

Question No228

In hexadecimal notation of Ethernet address, each byte is separated by _____ symbol. **Colon**

Question No229

In order to find the location of two errors in an eight-bit stream, we have to see _____ different combinations. **28**

Question No:230

MAC address is of

48 bits or 64 bits 24 bits 36 bits 42 bits Question

Question 231 Checksum is an error-detection technique that can be applied to a message of length.

Exactly 8 Exactly 4 Exactly 32 **Any**

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Question 232

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

None of the Given TDI PCI NCI

Question No:233 POTS stand for _? Plain old telephone system

Question No:234

In the context of Ethernet address, the destination address is always a _____ address. Unicast, multicast, broadcast

Question No:235 If the harming distance between sent and received code word is _____ then it shows that received data is corrupted. Is not equal to 0

Question No:236

What was the main drawback in the aloha random access method----- Redundancy in data

Question No:237

In telephone, network POP stands for Point-of presence

Question No:238

Transmission technology based on Ethernet provides a data rate of 1 billion bits per second. Standard Ethernet

Question No:239

In pure aloha the vulnerable time is ____ the frame transmission time Two times

Question No:240 The original Ethernet technology with the data rate of 10 Mbps is called Standard Ethernet

Question No:241 Which of the following is a correct controlled access method? All options

Question No:242 In telephone, network POP stands for _____. Point of presence

Question No:243 What was the main drawback in the aloha random access method? Redundancy data rate

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Question No:244

By using-----system, change in the file contents during file transmission can be avoided. **Error Detection and Correction**

Question No:245

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

Question No:247

In encoding, we use three levels: positive, zero, and negative.

polar nonpolar mmultilevel **bipolar**

Question No: 248

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

1 Hz **100 Hz** 1 KHz 1 MHz

Question No: 249

There are basic modes for the propagation of light in fiber-optic cables

3 4 5 **2**

Question No: 250

A parabolic dish antenna is a(n) antenna.

Omnidirectional Bidirectional Horn

Question No: 251

There are _ types of serial transmission: 1 **2** 3 4

Question No 252: Synchronous transmission have .

a start bit a stop bit gaps between bytes **none of the given**

Question No 253 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**

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Question No 254

is the formula for finding number of bits sent per level.

Log L **Log2** Log2*2 Log2 L

- Question No 255

The data rate of a T-1 line is .

1.544 Gbps 2.544 Mbps 1.544 Kbps **1.544 Mbps**

Question 256

Circuit switched networks have efficiency but delay compared to the packet switched networks. → high, minimal

, high **low, minimal**

Question No 257

Category 5 UTP cable is used for data transmission of upto .

100 Mbps 200 Mbps 250 Mbps 400 Mbps

Question No 258

All of popular Fiber optic connectors are

shaped. Conical **Barrel** Circular Rectangular

Question No 260

SONET stands for

synchronous optical network

synchronous operational network

stream optical network

shell operational network

Question No 262 Fast Ethernet has a data rate of Mbps.

10 **100** 1000 10,000

Question No 263 The VLF and LF bands use propagation for communications.

Ground **Sky** Line of sight Space

Math zone for vu

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Question No 264

In Bit-oriented framing, bit pattern is used as a flag to define beginning and end of a frame. $\neg (11111111)_2$ (10000001)₂ Single (01111110)₂

Question No 265

Traditionally, protocols have been defined for the data-link layer to deal with flow and error control.

Two Five **Four**

Question No 266

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 267

Need for Addressing makes Asynchronous TDM inefficient for bit or byte .

Interleaving **Addition** Substraction None of the given

Question No 268

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 269

A traditional telephone line has a bandwidth of

2000Hz 4000 Hz 2000 MHz 4000 MHz

Question No 270

To detect five errors, the Hamming distance between each pair of codewords should be at least_ .

4 5 **11** 6

Question No 271

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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 272 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 273

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 274 Error control in the data link layer is based on

automatic repeat request automatic repeat acknowledgment automatic send acknowledgment

Question No 275

In a technique called, compounding High-and-Low Resolution Packets, the lowresolution section in the first packet is

CRC Parity code Empty

Question No 276

In line discipline the initiator first transmits a frame called an

Enquiry Acknowledgment **NAK** Reque

Question No 277 Primary device uses to receive transmission from the secondary devices.

ACK ENQ POLL

Question NO 278 Token Bus has no commercial application in data communications **True** False Question No 279

HDLC is an acronym for .

High-duplex line communication **High-level data link control** Half-duplex digital link combination Host double-level circuit

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Question No 280

is normally used where speed is priority in data transfer.

Serial data transmission Hybrid data transmission Parallel data transmission
Both parallel and serial data transmission

Question No 281

A broadcast signal is received by the orbiting satellites which re-broadcasts .

to the resender to the sender to the atmosphere **none of the given**

Question No 282

In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as . Encapsulation De-encapsulation **Packetizing**

Question No 283

By using system, change in the file contents during file transmission can be avoided.

Routing Flow Control **Error Detection and Correction** Congestion Control

Question No 284

Which of the following consist of just one redundant bit per data unit?

Two dimensional Parity check. CRC **Simple Parity Check** Checksum

Question No 285

The extra bits added with the original data for error detection/correction are called .

Fault bits Port numbers **Redundant bits** Process

Question No 286

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 287

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The term means that only one bit of a given data unit is changed from 1 to 0 or from 0 to 1.

Packet Error Burst Error **Single Bit Error** Character Error

Question No 288

A sine wave is defined by characteristics.

2 **3** 4 5

Question No 289

Quadrature Amplitude Modulation (QAM) is the combination of and .

FSK, PSK PSK, FSK ASK, PSK ASK, FSK

Question No 290

To calculate the data rate for noisy channel formula is used.

Shannon Nyquist Propagatio Greedy

Question No 291

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

Question No 292

A modem is used to connect two DTEs directly.

NULL Cable DSL None of the given

Question No 293

Time division multiplexing is used in systems.

Analog Hybrid **Digital**

Question No 294

Line Configuration refers to the way two or more devices attach to a .

Path Circuit **Link** Router

Question No 295

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A sine wave is .

periodic and discrete aperiodic and discrete **periodic and continuous**
aperiodic and continuous

Question No 296

The logical connection between the peer layers is connection.

Physical Direct Indirect **Tangible**

Question No 297

category of coaxial cable is used for thin Ethernet.

RG-58 RG-59 RG-1 RG-47 ARQ

Question No 298

In selective-reject ARQ, only the specific damaged or lost frame is .

Retransmitted Forwarded Selected Rejected

Question No 299

Error detection and correction are the services provided by layer.

Data link layer Application layer Physical layer Session layer

Question No 300

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

DTE, DCE DCE, DTE DTE, DTE DCE, DCE

Question No 301 Time domain shows changes in .

time w.r.t signal amplitude **signal amplitude w.r.t time** time All of the given

Question No 302

Mr. Asif while sitting in Lahore is talking with his friend in Dubai through Skype is an example of .

Local Area Network **Metropolitan Area Network** Wide Area Network
Home Based Network Question No 303

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Which level of the TCP/IP reference model routes data/information across a network channel? Application Layer Data Link Layer Transport Layer
Network Layer

Question No 304

There are types of serial transmission.

3 4 **2** None of the given

Question 305

Latency is made of components.

Two Three Four Five

Question No 306

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

Same as **Two times**

Question No 307

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

Constant **More** Less Zero

Question No 308

Like 10 Base 5, 10 Base 2 is a topology LAN.

Ring Mesh Star **Bus**

Question No 309

Two or more computers connected so that they can communicate with each other and share information is called a .

satellite protocol broadcast **network**

Question No 310

Which error detection method consists of a parity bit for each unit as well as an entire data unit of parity bits?

Checksum

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Cyclic Redundancy Check (CRC)

longitudinal Red Check (LRC)

Vertical Redundancy Check (VRC)

Question No 312

Central Hub in a Tree is an .

Active hub

passive hub

Question No 313

CHAP is an Authentication Protocol, which uses process to AL-JUNAID TECH INSTITUTE authenticate user information.

Two-way

Three-way

Four-way Five-way

Question 314

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

Question315

Encoding digital data into digital signals is called .

Analog-to-Digital Conversion

Digital-to-Digital Conversion

Digital-to-Analog Conversion

None of the given

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Question 316

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

Question No 317

PSK is susceptible to the noise degradation. True False

Question 318

Low pass channel has bandwidth between two stations.

Dedicated Shared Multiplexed Infinite

Question 319

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

Question 320

In statistical time division multiplexing, number of slots in frame are less than

. Output data rate Input lines Input frequency Multiplexed T lines Infinite

Question 321

are used for Multi cast communication, such as radio and Television.

Microwaves Radio Waves Light waves Infrared Waves

Question 322

POTS stand for ?

Plain Old Telephone System Plain Old Telephone Services

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Plain Old Time Sharing

Plain Old Telephone Set

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