



CS-601 Data Communication Update MCQS For Quiz-1 File Solve By Vu Topper RM



80 To 100% Marks



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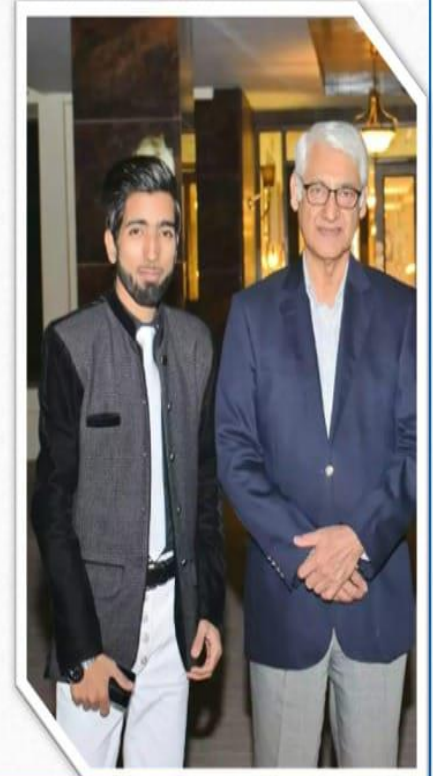
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Television broadcast where user can only view the information sent in the form of video is an example of _____ communication.

- A. Simplex**
- B. Complex
- C. Full duplex
- D. Half duplex

_____ is Shannon capacity formula to determine highest theoretically data rate for a noisy channel.

$$\text{Capacity} = \text{Bandwidth} * \log_2(1 + \text{SNR})$$

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)

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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 Shift 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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- 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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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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- 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
D. Network Layer

Google

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 and the voltage level for 1

Polar

Question No:122 (Marks:1) **Vu-Topper RM**

Polar encoding scheme uses _____ voltage level.

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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 nodes

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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

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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**
- C. Single Mode
- D. Line of Sight

Goolge

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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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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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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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**
- C. Asynchronous
- D. Metasochronous

Google

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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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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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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Question No:174

(Marks:1)

Vu-Topper RM

_____ is the Nyquist bit rate formula for noiseless channel.

$$\text{BitRate} = 2 * \text{Bandwidth} * L$$

$$\text{BitRate} = 2 * \text{Bandwidth} * \log_2$$

$$\text{BitRate} = 3 * \text{Bandwidth} * \log_2 L$$

$$\text{BitRate} = 2 * \text{Bandwidth} * \log_2 L$$

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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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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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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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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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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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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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.

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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 frames

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

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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 referred 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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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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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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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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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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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

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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. Biphasic

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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A. Insulator

B. Cladding

Google

C. Inner Conductor shield

D. Outer conductor shield

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