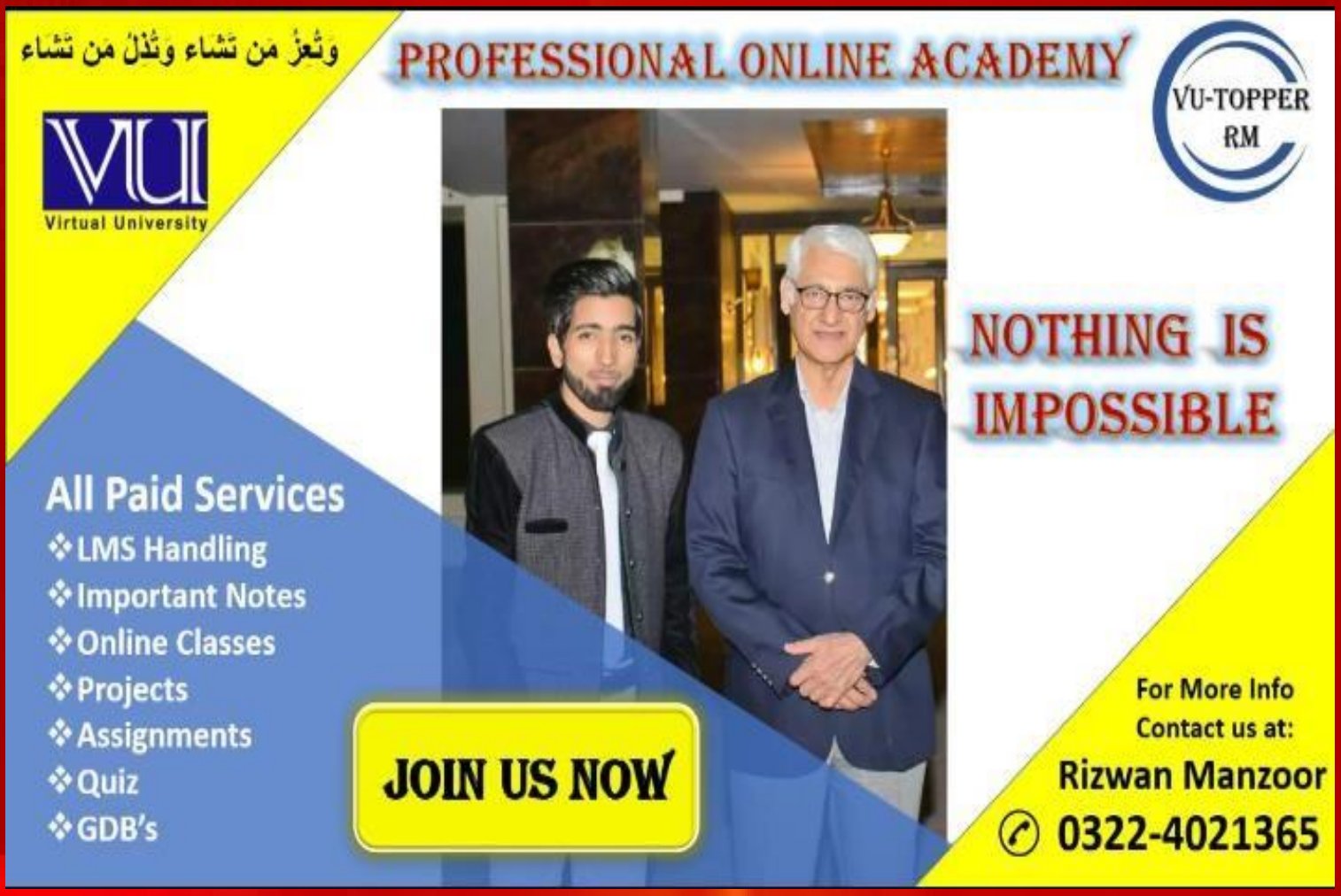
Cs-601 Important Mid Term Mcq's Solution 100% Correct : Solve By Vu-Topper RM!!



Question No:1 **(Marks:1)** **Vu-Topper RM**
TCP/IP was presented by_____ in a research paper.
Vin Cerf and bob Kahn

Question No:2 **(Marks:1)** **Vu-Topper RM**
HDB3 falls under which coding scheme?
Bipolar

Question No:3 **(Marks:1)** **Vu-Topper RM**
Line coding scheme is roughly divide into_____ broad categories.? **Five**

Question No:4 **(Marks:1)** **Vu-Topper RM**
A frequency is called _____, if the rate of change in sine wave Is Instantaneous.
Infinite frequency

Question No:5 **(Marks:1)** **Vu-Topper RM**
The bipolar encoding scheme was developed as an alternative of _____.
NRZ

Question No:6 **(Marks:1)** **Vu-Topper RM**
In _____ TCP/IP was declared as the official protocol of internet. **1983**

Question No:7 **(Marks:1)** **Vu-Topper RM**
If 32 bits are sent in two seconds then bitrate for that signal is _____.
16 bps

Question No:8 **(Marks:1)** **Vu-Topper RM**
Relatively measures the strength of two signals.
Decibel

Question No:9 **(Marks:1)** **Vu-Topper RM**
In _____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous

Question No:10 **(Marks:1)** **Vu-Topper RM**
PSK is _____ susceptible to noise as compared to ASK.

(Marks:1) **Vu-Topper RM**

False

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Question No:11

There are _____ components of data communication system. **5**

Question No:12 **(Marks:1)** **Vu-Topper RM**

Which one of following is a scrambling coding technique?

B8ZS

Question No:13 **(Marks:1)** **Vu-Topper RM**

In NRZ-I the signal is inverted if _____ is encountered. **1**

Question No:14 **(Marks:1)** **Vu-Topper RM**

If a digital transmission system is sending five bits in every half a second, the bitrate of the system will be _____.

5 bps

Question No:15 **(Marks:1)** **Vu-Topper RM**

_____ layer is responsible for creating datagrams.

Network

Question No:16 **(Marks:1)** **Vu-Topper RM**

_____ is the Nyquist bit rate formula for noiseless channel.

BitRate=2*Bandwidth*log2 L

Question No:17 **(Marks:1)** **Vu-Topper RM**

Signals travel through fiber optic cable are in the form of _____. **Light**

Question No:18 **(Marks:1)** **Vu-Topper RM**

When data is sent using _____ , multiple data bits are transmitted over multiple channels at the same time.

parallel transmission

Question No:19 **(Marks:1)** **Vu-Topper RM**

In Binary ASK, the peak amplitude of one signal level is 0 and the other is the same as the _____ of the carrier.

Amplitude

Question No:20 **(Marks:1)** **Vu-Topper RM**
_____category of coaxial cable is used for thick Ethernet.
RG-58

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Question No:21 **(Marks:1)** **Vu-Topper RM**
Time taken by a periodic signal to complete one cycle is called _____.
period.

Question No:22 **(Marks:1)** **Vu-Topper RM**
The most common type of connector used by coaxial cable is _____.
BNC

Question No:23 **(Marks:1)** **Vu-Topper RM**
Quadrature Amplitude Modulation is the mechanism of _____ conversion. **Digital to analog**

Question No:24 **(Marks:1)** **Vu-Topper RM**
QAM stands for _____ .
Quadrature Amplitude Modulation

Question No:24 **(Marks:1)** **Vu-Topper RM**
According to Nyquist theorem, the sampling rate must be at least _____ times the highest frequency contained in the signal.
Twice

Question No:25 **(Marks:1)** **Vu-Topper RM**
_____ is an example of transmitter.
Modem

Question No:26 **(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.
FSK

(Marks:1) **Vu-Topper RM**

Question No:27 **(Marks:1)** **Vu-Topper RM**

_____have established standards for using these signals for communication between devices such as keyboards, mice, PCs, and printers.

Infrared waves

Question No:28 **(Marks:1)** **Vu-Topper RM**

WDM stands for _____.

Wavelength Division Multiplexing

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Question No: 29 **(Marks:1)** **Vu-Topper RM**

_____ is composed of thousands of interconnected networks expanded over large geographical area.

Wide area network WAN

Question No:30 **(Marks:1)** **Vu-Topper RM**

In frequency domain plot, which value is plot on Y-axis?

Amplitude

Question No:31 **(Marks:1)** **Vu-Topper RM**

_____ signal completes a certain pattern in a specific amount of time.

Periodic

Question No:32 **(Marks:1)** **Vu-Topper RM**

The baud rate is _____ to the bit rate.

Measure

Question No:33 **(Marks:1)** **Vu-Topper RM**

In frequency domain plot, which value is replaced with frequency?

Wavelength

Question No:34 **(Marks:1)** **Vu-Topper RM**

The material used for conduction in twisted pair cable is _____.

Copper

Question No:35 **(Marks:1)** **Vu-Topper RM**

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

Shannon

Question No:36 **(Marks:1)** **Vu-Topper RM**

Radio waves are propagated in_____ whenever they are transmitted by an antenna. **All direction**

Question No:37 **(Marks:1)** **Vu-Topper RM**

In _____ topology, each computer/station is attached to other through a central device.

Star topology

Question No:38 **(Marks:1)** **Vu-Topper RM**

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

Vu-Topper RM

In frequency modulation, the frequency of the oscillator changes according to the _____.

Input Voltage

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39

According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

Discrete

Question No:40 **(Marks:1)** **Vu-Topper RM**

_____ is the heart of blocking code.

Coding

Question No:41 **(Marks:1)** **Vu-Topper RM**

Wireless transmission can be divided into_____ broad groups.

Three

Question No:42 **(Marks:1)** **Vu-Topper RM**

In transmission impairments _____ noise occurs from other sourcelike

Induced

Question No:43 **(Marks:1)** **Vu-Topper RM**

_____ is a digital process that allows connections to share the high bandwidth of a link.

TDM

Question No:44 **(Marks:1)** **Vu-Topper RM**

Demultiplexer is a_____ device.

One to many

Question No:45 **(Marks:1)** **Vu-Topper RM**

In TDM based digital hierarchy used by the Telephone companies, DS-0 is a single digital channel of

64 kbps

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

Question No:46 **(Marks:1)** **Vu-Topper RM**
Routing is a function of_____ layer.
Network

Question No:47 **(Marks:1)** **Vu-Topper RM**
Low pass channel with _____ bandwidth is not real and is used for theoretical modeling
Narrow

Question No:48 **(Marks:1)** **Vu-Topper RM**
Unit of phase is_____.
Degree

49
BFSK stands for_____.
Binary Frequency Sift Key

Question No:50 **(Marks:1)**
_____ is NOT an example of connecting device.
TCP

Question No:51 **(Marks:1)** **Vu-Topper RM**
Parabolic antenna is used for_____ communication.
Microwave

Question No:52 **(Marks:1)** **Vu-Topper RM**
Token Ring was devised by_____.
IBM

Question No:53 **(Marks:1)** **Vu-Topper RM**
Induced noiseCable TV networks use_____ cables.
Coaxial

Question No:54 **(Marks:1)** **Vu-Topper RM**
_____ signal is represented by the discrete values.

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

Vu-Topper RM

Digital

Question No:55 **(Marks:1)** **Vu-Topper RM**

Electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called_____.

Radio waves

Question No:56 **(Marks:1)** **Vu-Topper RM**

Most commonly used connector for twisted pair cable is _____.

RJ-45

Question No:57 **(Marks:1)** **Vu-Topper RM**

Binary Amplitude Shift Keying is also called as:

On-Off Keying

Question No:58 **(Marks:1)** **Vu-Topper RM**

_____ is a multiplexing technique which shifts each signal to a different carrier frequency.

FDM

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

Vu-Topper RM

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Entire band in United States is regulated by_____ authorities.

FCC

Question No:60 **(Marks:1)**

in NRZ-1 the signal is inverted if ————- is encountered.

1

Question No:61 **(Marks:1)** **Vu-Topper RM**

————- Protocol suite is being used by the modern internet communication.

TCP/IP

Question No:62 **(Marks:1)** **Vu-Topper RM**

In ——— signal changes its shape or form.

Distortion

Question No:63 **(Marks:1)** **Vu-Topper RM**

At the application layer, object/information is in the form of _____.

Message

Question No:64 **(Marks:1)** **Vu-Topper RM**

_____ is the first step in PCM technique

Sampling

Question No:65 **(Marks:1)** **Vu-Topper RM**

A frequency is called ____ if sine wave does not change with time

Zero frequency

Question No:66 **(Marks:1)** **Vu-Topper RM**

Open system interconnection (OSI) has __ number of layers **7**

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

Vu-Topper RM

Question No:67 **(Marks:1)** **Vu-Topper RM**

N= S*r is the formula for finding

Baud rate

Question No:68 **(Marks:1)** **Vu-Topper RM**

Unit of phase is _____.

Degree

Question No:69 **(Marks:1)** **Vu-Topper RM**

In context of bandwidth-delay product the cross section of the pipe represents the _____.

Bandwidth

70

OSI stands for _____.

Open system interconnection

Question No:71 **(Marks:1)**

Writing used for transmission modes depends upon _____.

Data stream

Question No:72 **(Marks:1)** **Vu-Topper RM**

Minimum bandwidth required for Manchester line coding scheme is _____.

1Mhz

Question No:73 **(Marks:1)** **Vu-Topper RM**

A twisted pair cable consists of _____ conductors

2

Question No:74 **(Marks:1)** **Vu-Topper RM**

Packets travel in ____ layer of TCP/IP protocol suit

Network

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

Vu-Topper RM

Question No:75 **(Marks:1)** **Vu-Topper RM**

_____ protocol suit is being used by the modern internet communication

TCP/IP

Question No:76 **(Marks:1)** **Vu-Topper RM**

Frames travel in _____ layer of TCP/IP Protocol suite.

Data link

Question No:77 **(Marks:1)** **Vu-Topper RM**

There are __ common scrambling technique

Two

Question No:78 **(Marks:1)** **Vu-Topper RM**

FSK stands for _____.

Frequency shift keying

Question No:79 **(Marks:1)** **Vu-Topper RM**

RG-11 having impedance of 50 ohm is used in _____ Ethernet

Thin

Question No:80 **(Marks:1)** **Vu-Topper RM**

Switch is a _____ layer devices

Data link

81

In PCM technique Quantization is an _____ process

Un-balanced

Question No:82 **(Marks:1)**

The layer of TCP/IP protocol suite which is on the top is known as _____ layer.

Application

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

Vu-Topper RM

Question No:83 **(Marks:1)** **Vu-Topper RM**
Manchester encoding scheme uses and inversion at the _____ of each bit
Middle

Question No:84 **(Marks:1)** **Vu-Topper RM**
High-Level Data Link Control(HDLC) defines ____ types of frames to deal with the transfer modes.
3

Question No:85 **(Marks:1)** **Vu-Topper RM**
_____ are used to transport user data and control information relating to user data
Information frams

Question No:86 **(Marks:1)** **Vu-Topper RM**
_____ are used to exchange session management and control information between connected devices.
U-frames

Question No:87 **(Marks:1)** **Vu-Topper RM**
The _____ is the number of signal elements sent per unit time.
Bit rate

Question No:88 **(Marks:1)** **Vu-Topper RM**
Error correction is more _____ than the error detection
Difficult

Question No:89 **(Marks:1)** **Vu-Topper RM**
One of the most common protocols for point-to-point access is _____.
PPP

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

Vu-Topper RM

Question No:90 **(Marks:1)** **Vu-Topper RM**

Traditionally MANs have been implemented using one of the 2 technologies, Circuit Switching and Packet Switching **False**

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

Vu-Topper RM

91

Which one is not the function of data link layer?

Line discipline

Question No:92 **(Marks:1)** _____

is not a function of Data Link Control.

Modulation

Question No:93 **(Marks:1)** **Vu-Topper RM**

The _____ protocol uses both flow and error control.

Stop-and-Wait

Question No:94 **(Marks:1)** **Vu-Topper RM**

WDM stands for _____.

Wave Division Multiplexing

Question No:95 **(Marks:1)** **Vu-Topper RM**

In circuit switched networks we have low efficiency but minimal _____.

Delay

Question No:96 **(Marks:1)** **Vu-Topper RM**

Digital signals are refered to be _____.

Discrete

Question No:97 **(Marks:1)** **Vu-Topper RM**

The original Ethernet technology with the data rate of 10 Mbps is called _____?

Standard Ethernet

Question No:98 **(Marks:1)** **Vu-Topper RM**

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

Redundant bits

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

Vu-Topper RM

Question No:99 **(Marks:1)** **Vu-Topper RM**

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

Slotted ALOHA

Question No:100 **(Marks:1)** **Vu-Topper RM**

In TCP/IP protocol suite, the process of adding header at each layer on sending side is known as _____

Packetizing

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01

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

0.2

Question No:102 **(Marks:1)**

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

Two times

Question No:103 **(Marks:1)** **Vu-Topper RM**

Analog refers to something that is continuous in _____.

Time

Question No:104 **(Marks:1)** **Vu-Topper RM**

_____ encoding is almost obsolete today

Unipolar

Question No:105 **(Marks:1)** **Vu-Topper RM**

Which of the following is most affected by noise?

ASK

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

Question No:106 **(Marks:1)** **Vu-Topper RM**
_____ is sometimes called the bit rate.
Data rate

Question No:107 **(Marks:1)** **Vu-Topper RM**
_____ contains a repeater.
Active hub

Question No:108 **(Marks:1)** **Vu-Topper RM**
Asynchronous transmission is _____.
Slow

Question No:109 **(Marks:1)** **Vu-Topper RM**
In ASK, both _____ and _____ remain constant.
Frequency, Phase

Question No:110 **(Marks:1)** **Vu-Topper RM**
We can have _____ different groups with a 4 bit block. **8**

Question No:111 **(Marks:1)** **Vu-Topper RM**
DLC in Data Link Layer stands for _____.
Data Link Control

12
In _____, each station is allocated a time slot during which it can send data.
TDMA

Question No:113 **(Marks:1)** **Vu-Topper RM**
Asynchronous TDM is efficient only when the size of the time slot is kept relatively _____.
Large

Question No:114 **(Marks:1)** **Vu-Topper RM**
Human voice is example of _____ signal
Analog

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

Vu-Topper RM

Question No:115 **(Marks:1)** **Vu-Topper RM**
Normally the value of Kmax in pure ALOHA is _____.
15

Question No:116 **(Marks:1)** **Vu-Topper RM**
YMODEM has _____ Byte of data unit.
1024

Question No:117 **(Marks:1)** **Vu-Topper RM**
In Block coding scheme, number of code words is always _____ data words.
Equal to

Question No:118 **(Marks:1)** **Vu-Topper RM**
Which one of the following is not a Channelization Protocol?
CSMA

Question No:119 **(Marks:1)** **Vu-Topper RM**
The most common type of connector used by coaxial cable is _____.
BNC

Question No:120 **(Marks:1)** **Vu-Topper RM**
_____ is an Authentication Protocol, which uses two-step process to authenticate user information.
PAP

Question No:121 **(Marks:1)** **Vu-Topper RM**
The transmission medium that carries the message is referred to as the _____.
Communication channel

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

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

22

Which error detection method uses one's complement arithmetic
Checksum

Question No:123 **(Marks:1)** **Vu-Topper RM**

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

Question No:124 **(Marks:1)** **Vu-Topper RM**

There are _____ types of serial transmission
2

Question No:125 **(Marks:1)** **Vu-Topper RM**

_____ and _____ are the two types of addressing in virtual circuit approach. **Local, Global**

Question No:126 **(Marks:1)** **Vu-Topper RM**

_____ relatively measures the strength of two signals. **Decibel**

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Top most organization that provides support for the Internet Standard process is called_____.

Internet Society (ISOC)
Internet Architecture Board (IAB)
IETF
IRTF

In pulse code modulation the term sampling can also be referred as_____.

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

Pulse Amplitude Modulation
Pulse sample Modulation
Pulse line modulation
Pulse Frequency Modulation

In transmission impairments_____ noise occurs from the random motion of electrons in a wire.

Thermal noise
Impulse noise
Cross talk
Induced noise

Bandwidth can be measured in _____.
bits per second bps

In Amplitude Shift Keying. _____of the signal is/are changed.
Amplitude and Frequency
Amplitude
Frequency and Amplitude
Phase

A variation of AMI encoding is called as _____.
Pseudoternary

We quantize the sampling output into certain levels based on range of_____ and required accuracy.

Frequency

Amplitude
Time period
None

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

In star based network comprising of four computers and one switch, total number of cables needed will be_____.
1
2
3
4

For a noiseless channel, theoretical formula to calculate the data rate was developed by _____.
Nyquist

Which of the following is not a characteristic of a sine wave?

Amplitude

Segmentation
Phase
Frequency

In ___ scheme the voltages are on both sides of the time axis and voltage level for 0 can be positive ant the voltage level for 1
Polar

To calculate the data rate for noiseless channel _____ formula is used.
Nyquist Bit Rate

Polar encoding scheme uses _____ voltage level.
Two different

In a bidirectional communication each layer performs two ____ tasks in each direction.
Opposite

Question No:1 **(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.

Bus
Ring
Star
Mesh

In _____ scheme, all the signal levels are on one side of the time axis, either above or below.
Unipolar

_____can be published using Request for Comments (RFCs).

Proposed Standard

Draft Standard
Internet Draft
Internet Standard

In serial data transmission _____ data transmission mode can be cheap but slower.

Synchronous

Asynchronous
Isochronous
Metachronous

In Manchester and differential Manchester encoding schemes, the signal rate is _____ than that of NRZ.
Double

In _____ transmission medium start and stop bits are used

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

Asynchronous

QPSK stands for_____.

Quality phase shift key

Queuing phase shift key
Quadrature phase shift key
Quality physical shift key
_____ data moves faster and timing errors are less frequent because the transmitter and receiver time is synced.
Synchronous

In _____, the instantaneous change in the carrier frequency is proportional to the derivative of the amplitude of the modulating signal.
Frequency

In FSK, Baud rate is less than or equal to _____ rate.

Signal

Decibel
Bit
None of these Given

In Ring topology, each node has a point to point dedicated link with.
Exactly 2 nods

Simple sine wave can be used to send -------- .
Amplitude

Bi-polar uses_____ voltage levels.

One

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

Two
Three
Four

Low pass channel has_____ bandwidth between two stations.

Dedicated
Shared
Multiplexed
Infinite

In TCP / IP model, the Physical Layer exchanges data in the form of _____.
Bits
_____ layer converts frames coming from Data Link Layer into bits and sends

Them on the transmission medium.

Application
Physical
Network
Transport

To calculate the data rate for noiseless channel _____ formula is used.
Nyquist Bit Rate

A frequency is called ____ if sine wave does not change with time
Zero frequency

The maximum bandwidth required for QAM transmission is the same as that required for _ and _____ transmission.
ASK, PSK

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

In _____ transmission mode(s), multiple bits are sent simultaneously.
Parallel transmission

Block coding scheme contains_____ number of steps.
3
4
5
6

Which of following technique(s) is used for Analog-to-Digital Conversion?
Pulse Code modulation (PCM)

_____ is correct formula to determine the total number of ports needed for one system connected in a mesh network.
N*(N-1)

Communication between two user in a cellular (Mobile) network is an example of __ communication **Full duplex**

In ___ encoding scheme, the voltage level oscillates between a positive and a negative value although it may remain at zero level between the two values.
Polar

BFSK stands for_____.

Baud Frequency Shift Key

Binary Frequency Sift Key
Barrier Frequency Shift Key
Bridge Frequency Shift Key

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

According to the Fourier analysis, frequencies obtained after decomposition of digital signals are_____.

Continuous
Discrete
Bit length
Homogeneous

Suppose a signal is amplitude then the value od decibel will be _____.

0
1
Negative
Positive

_____ is the number of bits sent in 1 second.
Bit rate

In frequency domain plot, which value is replaced with frequency?

Wavelength
Amplitude
Phase
Time

We can have _____different groups with a 4 bit block.
4
6
7
8

_____ means loss of energy in signal.

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

Noise
Delay
Attenuation
Distortion

Uni polar, polar and bipolar are the types of ——————

Line
Differential Manchester
NRZ-I
Block

If a digital transmission system is sending five bits in every half a second, the bit-rate of the system.

5 bps
10 Hz
0.2 bps

_____ signal completes certain pattern in a specific amount of time.

Non-periodic

Periodic
A Periodic
Wavelength

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

Shannon
Nyquist
Propagation
Greedy

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