

Cs 601 Updated Mid Term Objective Type

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Effective network mean that the network has fast delivery, timeliness and

- high bandwidth
- duplex transmission
- accurate transmission**
- low bandwidth

A set of devices connected by communication links is called networking

- True**
- False

Which one best describes the given statement:

"To allow multiple users to share total capacity of a transmission medium"

- congestion control
- exchange management
- multiplexing**

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

- Link**
- Circuit

Ø Route
Ø Node

requires the maximum number of I/O ports.

Ø Bus
Ø Star
Ø Mesh
Ø Ring

is used to define the direction of the signal flow between the linked devices.

Ø transmission mode
Ø transmission method
Ø transmission impairments

Unidirectional traffic movement is overcome by dual ring technology.

Ø True
Ø False

Trailer is only added at layer of OSI model.

Ø Data link
Ø Physical
Ø Network
Ø Application

Data link layer deals with mechanical and electrical specifications of transmission medium and interface

- True
- False

A signal that repeats a pattern over a regular interval of time is called .

- periodic signal
- analog signal
- composite signal

If there is in voltage then the frequency is infinite.

- instantaneous change
- continuous change
- no change

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

- signal amplitude
- frequency
- phase
- time

DC component is also termed as Direct current component or a component with non-zero frequency.

- False
- True

Quantization means measuring amplitudes of signal at equal intervals.

- True
- False

Amplitude in ASK is more resistive to EMI and Noise.

True

False

ASK, PSK, FSK and QAM are examples of modulation.

digital-to-digital

digital-to-analog

analog-to-analog

analog-to-digital

The bit rate always equals the baud rate in which type of signal?

FSK

QAM

4-PSK

PSK

Asynchronous transmission is

Slow

costly

non-effective

fast

A converts an analog signal into a digital signal.

Demodulator

Modulator

Digital-to-analog converter

If a station does not receive its signal up to a specified time that system issues an alarm to

- Ø another node
- Ø network manager
- Ø switch
- Ø network analyzer

The information to be communicated in a data communications system is the

- ▶ Medium
- ▶ Protocol
- ▶ Message
- ▶ Transmission

Which is not an element of protocol

- ▶ semantics
- ▶ timing
- ▶ communication service module

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

- ▶ Link
- ▶ Circuit
- ▶ Route
- ▶ Node

_____requires the maximum number of I/O ports.

- ▶ Bus
- ▶ Star

- ▶ Mesh
- ▶ Ring

Which topology requires a central controller or hub?

- ▶ Mesh
- ▶ Star
- ▶ Bus
- ▶ Ring

Layers 5, 6 and 7 also called as network support layers.

- ▶ True
- ▶ False

Internet with small “i” specifies the world wide Network the actual internet.

- ▶ True
- ▶ False

Data link layer deals with mechanical and electrical specifications of transmission medium and interface

- ▶ True
- ▶ False

Data synchronization is a function related with _____

- ▶ session layer
- ▶ presentation layer
- ▶ transport

OSI model was developed prior to TCP/IP model.

- ▶ True
- ▶ False

Fourier transform tells us that any digital signal can be decomposed into infinite number of periodic signals

- ▶ True
- ▶ False

A signal that repeats a pattern over a regular interval of time is called_____.

- ▶ periodic signal
- ▶ analog signal
- ▶ composite signal

Frequency band in which 99% of the total power resides is called_____

- ▶ power bandwidth
- ▶ half power bandwidth
- ▶ 3dB bandwidth
- ▶ F.M.

In differential Manchester we require two transition or signal changes to represent binary_____

- ▶ zero
- ▶ one
- ▶ both zero and one

In Alternate mark inversion the term mark comes from_____

- ▶ telegraphy
- ▶ telephony
- ▶ digital telephony

Question No: 16 (Marks: 1) - Please choose one

A 56k modem can download at a rate of _____ Kbps and upload at a rate of _____ Kbps.

- ▶ 33.6: 33.6
- ▶ 33.6: 56.6
- ▶ 56.6: 33.6
- ▶ 56.6: 56.6

The bit rate always equals the baud rate in which type of signal?

- ▶ FSK
- ▶ QAM
- ▶ 4-PSK
- ▶ PSK

Asynchronous transmission is _____

- ▶ slow
- ▶ costly
- ▶ non-effective
- ▶ fast

\At the _____ layer, a DCE takes data generated by a DTE.

- ▶ physical
- ▶ transport
- ▶ data link
- ▶ application

_____ requires more bandwidth.

- ▶ FSK
- ▶ ASK
- ▶ PSK
- ▶ QAM

Which topology requires a central controller or hub?

- ▶ Mesh
- ▶ Star
- ▶ Bus
- ▶ Ring

Unidirectional traffic movement is overcome by dual ring technology.

- ▶ True
- ▶ False

Which one best describes the given statement:

"To allow multiple users to share total capacity of a transmission medium"

- ▶ congestion control
- ▶ exchange management
- ▶ multiplexing

Which one is not among standard creation committee.

- ▶ internet society and IETF
- ▶ ITU-T
- ▶ IEEE

Set of rules that govern communication is called

- ▶ OSI model
- ▶ Protocol

- ▶ TCP/IP model
- ▶ Datagram

Frequency of a failure and network recovery time after a failure is measures of the _____ of a network.

- ▶ Performance
- ▶ Reliability
- ▶ Security
- ▶ Feasibility

3dB is also called as power bandwidth.

- ▶ True
- ▶ False

ASK, PSK, FSK and QAM are examples of _____ modulation.

- ▶ digital-to-digital
- ▶ digital-to-analog
- ▶ analog-to-analog
- ▶ analog-to-digital

Packet switching is a connection oriented service.

- ▶ True
- ▶ False

Data synchronization is a function related with _____

- ▶ session layer
- ▶ presentation layer
- ▶ transport

Fourier transform tells us that any digital signal can be decomposed into infinite number of periodic signals

- ▶ True
- ▶ False

The internet model consists of _____ layers.

- ▶ three
- ▶ two
- ▶ five
- ▶ seven

Analog to digital conversion is also termed as modulating an analog signal.

- ▶ True
- ▶ False

PCM is the first process of PAM.

- ▶ True
- ▶ False

A modulator converts a(n) _____ signal to a(n) _____ signal.

- ▶ FSK: PSK
- ▶ Digital: analog
- ▶ Analog: digital
- ▶ PSK: FSK

The _____ layer changes bits into electromagnetic signals.

- ▶ physical
- ▶ data link
- ▶ transport
- ▶ none of given

We need _____ to decompose a composite signal into its components.

- ▶ **fourier transform**
- ▶ nyquist theorem
- ▶ shannon capacity

The bit rate always equals the baud rate in which type of signal?

- ▶ **FSK**
- ▶ QAM
- ▶ 4-PSK
- ▶ PSK

There are _____ possible variations of 16 QAM.

- ▶ five
- ▶ two
- ▶ **three**
- ▶ four

Number of signal units per second that are required to represent a bit is called bit rate.

- ▶ True
- ▶ **False**

Effective network mean that the network has fast delivery, timeliness and

high bandwidth

duplex transmission

accurate transmission

low bandwidth

A set of devices connected by communication links is called networking

True

False

_____ is a multipoint topology.

Ring

Mesh

Tree

Bus

_____ requires the maximum number of I/O ports.

Bus

Star

Mesh

Ring

Unidirectional traffic movement is overcome by dual ring technology.

True

False

As the data packet moves from the lower to the upper layers, headers are

_____.

- added
- subtracted
- rearranged
- modified

Data chunk at data link layer is called _____

- frame
- packet
- datagram

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

- Physical
- data link
- network
- transport

Data synchronization is a function related with _____

- session layer
- presentation layer
- transport

Which layer is responsible for source to destination delivery of entire message?

- transport layer
- network layer
- session layer
- application layer

Encryption and encoding are the same terms.

True

False

TCP/IP model Application layer incorporate OSI Application and presentation

layers

True

False

A sine wave must be an analog signal.

True

False

A periodic signal can always be decomposed into _____

exactly an odd number of sine waves

a set of sine waves

set of sine waves, one of the which must have a phase of 00

none of the given

Manchester is a type of _____ encoding.

Biphase

polar

biphase & polar

none of the given

The powerful carrier signal is called as the _____

- carrier frequency**
- base signal**
- carrier frequency and base signal**
- none of given**

Modulation of an analog signal can be accomplished through changing the _____ of the carrier signal.

- amplitude**
- frequency**
- phase**
- all of the given**

In _____ transmission, bits are transmitted over a single wire, one at a time.

- Asynchronous serial**
- Synchronous serial**
- Parallel**
- Asynchronous & Synchronous serial**

In RS 422 Balanced mode two lines carry _____ signals which are not identical to each other.

- Same**
- different**
- digital**
- analog**

A _____ converts an analog signal into a digital signal.

- Demodulator**
- Modulator**
- Digital-to-analog converter**

In RS 422 Balanced mode two lines carry signals which are not identical to each other.

- ▶ same
- ▶ different
- ▶ digital
- ▶ analog

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

- ▶ DTE; DCE
- ▶ DCE; DTE
- ▶ DCE; node
- ▶ DTE; application

In transmission, a start bit and a stop bit frame a character byte.

- ▶ Asynchronous serial
- ▶ Synchronous serial
- ▶ Parallel
- ▶ Asynchronous & Synchronous serial

In transmission, bits are transmitted simultaneously, each across its own wire.

- ▶ Asynchronous serial
- ▶ Synchronous serial
- ▶ Parallel
- ▶ Asynchronous & Synchronous serial

Asynchronous transmission is

- ▶ slow
- ▶ costly
- ▶ non-effective
- ▶ fast

In transmission the timing of the signal is unimportant.

- ▶ Asynchronous
- ▶ Synchronous
- ▶ Polar
- ▶ Bi-polar

In 8QAM each signal shift or one baud represents _____

- ▶ 4 bits
- ▶ 2 bits
- ▶ 5 bits
- ▶ 3 bits

PCM is the first process of PAM.

- ▶ True
- ▶ False

Bi phase encoding is a type of bipolar encoding in which we use two voltage levels.

- ▶ True
- ▶ False

The amplitude of a digital signal depends upon the to represent a bit.

- ▶ phase
- ▶ voltage
- ▶ wavelength

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

- ▶ True
- ▶ False

OSI model was developed prior to TCP/IP model.

- ▶ True
- ▶ False

layer is the layer closest to the transmission medium.

- ▶ Physical
- ▶ Data link
- ▶ Network
- ▶ Transport

Data chunk at data link layer is called

- ▶ frame
- ▶ packet
- ▶ datagram

The internet model consists of layers.

- ▶ Three
- ▶ Two
- ▶ Five
- ▶ Seven

representation of links that connect nodes is called as physical topology.

- ▶ geometrical
- ▶ logical
- ▶ physical

is a multipoint topology.

- ▶ Ring
- ▶ Mesh
- ▶ Tree
- ▶ Bus

Question No: 18 (Marks: 1) - Please choose one

In mesh topology, if there are five nodes then there will be links.

- ▶ 5
- ▶ 10
- ▶ 15
- ▶ 20

Non proprietary standard is also termed as de facto standard.

- ▶ True
- ▶ False

Effective network mean that the network has fast delivery, timeliness and

- ▶ high bandwidth
- ▶ duplex transmission
- ▶ accurate transmission
- ▶ low bandwidth

Frequency of a failure and network recovery time after a failure is measures of the _____ of a

network.

Performance

Reliability

Security

Feasibility

Secondary hub in a tree must be a passive hub.

True

False

In mesh topology, if there are five nodes then there will be _____ links.

5

10

15

20

Internet with small “i” specifies the world wide Network the actual internet.

True

False

Data link layer deals with mechanical and electrical specifications of transmission medium and interface

True

False

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

Time domain plot shows changes in signal phase with respect to time.

- True
- False

Frequency band in which 99% of the total power resides is called _____

- power bandwidth
- half power bandwidth
- F.M

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

- NRZ-L
- NRZ-I
- RZ

Which of the encoding schemes have bandwidth problems?

- Differential Manchester
- AMI
- RZ

Bi phase and bipolar are same terms.

- True
- False

Quantization means measuring amplitudes of signal at equal intervals.

- True
- False

The last process in PCM is _____ digital data into digital signal.

- Encoding
- decoding
- modulating

Which modulation technique involves tribits, eight different phase shifts, and one amplitude?

- FSK
- 8-PSK
- ASK
- 4-PSK

Asynchronous transmission is _____

- slow
- costly
- non-effective
- fast

Synchronous transmission have _____.

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

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

- Ø DTE; DCE**
- Ø DCE; DTE
- Ø DCE; node
- Ø DTE; application

A human brain is considered as a _____

- Ø driver
- Ø machine
- Ø DTE**
- Ø DCE

The last modified version of EIA-232 standard is _____

- Ø EIA-232 D**
- Ø EIA-232 A
- Ø EIA-232 B
- Ø EIA-232 C

A _____ converts an analog signal into a digital signal.

- Ø Demodulator**
- Ø Modulator
- Ø Digital-to-analog converter

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