

Data Communication (CS601)

MID TERM EXAMINATION SPRING 2009



VU
PLANET
PLANET OF KNOWLEDGE



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

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

- same
- different
- digital
- analog

Question No: 2 (Marks: 1) - Please choose one

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

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

Question No: 3 (Marks: 1) - Please choose one

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

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

Question No: 4 (Marks: 1) - Please choose one

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

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

Question No: 5 (Marks: 1) - Please choose one

Asynchronous transmission is _____

- slow**
- costly
- non-effective
- fast

Question No: 6 (Marks: 1) - Please choose one
In transmission the timing of the signal is unimportant.

Asynchronous

Synchronous
 Polar
 Bi-polar

Question No: 7 (Marks: 1) - Please choose one
In 8QAM each signal shift or one baud represents _____.

4 bits
 2 bits
 5 bits
 3 bits

Question No: 8 (Marks: 1) - Please choose one
PCM is the first process of PAM.

True
 False

Question No: 9 (Marks: 1) - Please choose one
Bi phase encoding is a type of bipolar encoding in which we use two voltage levels.

True
 False

Question No: 10 (Marks: 1) - Please choose one
The amplitude of a digital signal depends upon the _____ to represent a bit.

phase
 voltage
 wavelength

Question No: 11 (Marks: 1) - Please choose one
Time domain plot show changes in signal phase with respect to time.

True

False

Question No: 12 (Marks: 1) - Please choose one
OSI model was developed prior to TCP/IP model.

True

False

Question No: 13 (Marks: 1) - Please choose one
The layer is the layer closest to the transmission medium.

- physical
- data link
- network
- transport

Question No: 14 (Marks: 1) - Please choose one

Data chunk at data link layer is called_____

frame

packet

datagram

Question No: 15 (Marks: 1) - Please choose one
The internet model consists of _____ layers.

three

two

five

seven

Question No: 16 (Marks: 1) - Please choose one
_____ representation of links that connect nodes is called as physical topology.

geometrical

logical

physical

Question No: 17 (Marks: 1) - Please choose one
_____ is a multipoint topology.

Ring

Mesh

Tree

Bus

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

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

5

10

15

20

Question No: 19 (Marks: 1) - Please choose one

Non proprietary standard is also termed as de facto standard.

True

False

Question No: 20 (Marks: 1) - Please choose one

Effective network mean that the network has fast delivery, timeliness and
high bandwidth
duplex transmission
accurate transmission
low bandwidth

Question No: 21 (Marks: 2)

What is purpose of distributed processing?

Question No: 22 (Marks: 3)

What is HDB3.

Question No: 23 (Marks: 5)

Differentiates between the following terms. [10 marks]

- (a) Syntax and Semantics of protocol.
- (b) Network management and exchange management.
- (c) Monolithic and structured.

Question No: 24 (Marks: 10)

Differentiate between the following terms.

a) Frequency spectrum and bandwidth.

(b) Bandwidth and throughput.

(c) Bit interval and bit rate.