

MIDTERM EXAMINATION
Spring 2009

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 (P109)
- ▶ 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 (P 101)
- ▶ 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 (P99)
- ▶ Synchronous serial (P99)
- ▶ 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 (P99)
- ▶ costly
- ▶ non-effective
- ▶ fast

Question No: 6 (Marks: 1) - Please choose one

In _____ transmission the timing of the signal is unimportant.

▶ Asynchronous (P99)

- ▶ 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 (P93)

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 (P73)
- ▶ False

Muhammad Moaaz Siddiq – MCS(4th)

Moaaz.pk@gmail.com

Campus:- Institute of E-Learning & Modern Studies

(IEMS) Samundari

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 (P63)

Question No: 12 (Marks: 1) - Please choose one

OSI model was developed prior to TCP/IP model.

- ▶ True
- ▶ False(P54)

Question No: 13 (Marks: 1) - Please choose one

_____ layer is the layer closest to the transmission medium.

- ▶ Physical (P45)
- ▶ Data link
- ▶ Network
- ▶ Transport



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

Data chunk at data link layer is called _____

- ▶ frame
- ▶ packet (P38)
- ▶ datagram

Question No: 15 (Marks: 1) - Please choose one

The internet model consists of _____ layers.

- ▶ Three (P239)
- ▶ Two
- ▶ Five
- ▶ Seven

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

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

- ▶ geometrical (P28)
- ▶ logical
- ▶ physical

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Moaz.pk@gmail.com

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Question No: 17 (Marks: 1) - Please choose one

_____ is a multipoint topology.

- ▶ Ring
- ▶ Mesh
- ▶ Tree
- ▶ **Bus (P31)**

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

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

- ▶ 5
- ▶ **10(P10)**
- ▶ 15
- ▶ 20

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

Non proprietary standard is also termed as de facto standard.

- ▶ **True (P23)**
- ▶ 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 (P6)**
- ▶ low bandwidth



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

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

- **Performance (P 14)**
- Reliability
- Security
- Feasibility

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Question No: 2 (Marks: 1) - Please choose one
Secondary hub in a tree must be a passive hub.

- True (P31)
- False

Question No: 3 (Marks: 1) - Please choose one
In mesh topology, if there are five nodes then there will be _____ links.

- 5
- 10 (P29)
- 15
- 20

Question No: 4 (Marks: 1) - Please choose one
Internet with small "i" specifies the world wide Network the actual internet.

- True
- False (P39)

Question No: 5 (Marks: 1) - Please choose one
Data link layer deals with mechanical and electrical specifications of transmission medium and interface

- True (P 44)
- False

Question No: 6 (Marks: 1) - Please choose one
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 No: 7 (Marks: 1) - Please choose one
Time domain plot show changes in signal phase with respect to time.

- True
- False (63)

Question No: 8 (Marks: 1) - Please choose one
Frequency band in which 99% of the total power resides is called _____

- power bandwidth (P67)
- half power bandwidth
- F.M.

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Question No: 9 (Marks: 1) - Please choose one

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

- NRZ-L
- **NRZ-I (P73)**
- RZ

Question No: 10 (Marks: 1) - Please choose one

Which of the encoding schemes have bandwidth problems?

- Differential Manchester
- **AMI (P77)**
- RZ

Question No: 11 (Marks: 1) - Please choose one

Bi phase and bipolar are same terms.

- True
- **False (P78)**

Question No: 12 (Marks: 1) - Please choose one

Quantization means measuring amplitudes of signal at equal intervals.

- True
- **False (P80)**

Question No: 13 (Marks: 1) - Please choose one

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

- **Encoding (P70)**
- decoding
- modulating



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

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

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

Question No: 15 (Marks: 1) - Please choose one

Asynchronous transmission is _____

- **slow (P99)**
- costly
- non-effective
- fast

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

Synchronous transmission have _____.

- a start bit
- a stop bit
- gaps between bytes
- **none of the given (P99)**

Muhammad Moaaz Siddiq – MCS(4th)

Moaz.pk@gmail.com

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(IEMS) Samundari**

Question No: 17 (Marks: 1) - Please choose one Asynchronous transmission

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

- DTE; DCE (P101)
- DCE; DTE
- DCE; node
- DTE; application

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

A human brain is considered as a _____

- driver
- machine
- DTE (P101)
- DCE

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

The last modified version of EIA-232 standard is _____

- EIA-232 D (P102)
- EIA-232 A
- EIA-232 B
- EIA-232 C

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

A _____ converts an analog signal into a digital signal.

- Demodulator (P110)
- Modulator
- Digital-to-analog converter



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