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# **CS601 Live Quiz**

## **MID TERM**

**PAID VU LMS HANDLING by Mam Mehwish**

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**Past Papers for Mids./Finals are also Available**

1. Uni polar, Polar and Bipolar are types of \_\_ coding scheme.

- NRZ-I
- **Line ✓**
- Differential Manchester

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2. In Pulse Code Modulation, the term sampling can also be referred to as:

- Pulse Frequency Modulation
- Pulse Line Modulation
- Pulse sample Modulation
- **Pulse Amplitude Modulation ✓**

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3. According to Nyquist theorem, the sampling rate must be at least \_\_ times the highest frequency contained in the signal.

- **Two ✓**
- Three
- Four
- One

---

4. In \_\_ encoding scheme, we use three levels: positive, zero, and negative.

- Nonpolar

- **Bipolar ✓**
  - Multilevel
  - Polar
- 

5. In scrambling coding scheme, the number of pulses replacing the bits will be:

- Equal to pulses
  - **Double the pulses ✓**
  - Triple the pulses
  - Half of the pulses
- 

6. \_\_\_ encoding scheme is somewhat a combination of the RZ and NRZ-I schemes.

- Manchester and differential Manchester
  - Manchester
  - **Differential Manchester ✓**
  - Nonpolar
- 

7. In \_\_\_ transmission mode(s), multiple bits are sent simultaneously.

- Sequential
  - **Parallel ✓**
  - Serial
  - In Serial and Parallel
- 

8. In Pulse Code Modulation (PCM), the sampling is dependent on:

- Frequency
  - Signal Rate
  - Amplitude
  - **Time ✓**
-

9. Bath -----~ remain constant in Frequency Shift Keying.

- Frequency and amplitude ✓
- Amplitude and phase
- Phase and baud rate
- Bit rate and phase

10. Narrow bands of light in wave division multiplexing are denoted by:

- Wavelengths ✓
- Frequencies
- Channels
- Time slots

1. In encoding scheme, we use three levels: positive, zero, and negative.

- ✗ Bipolar
- ✓ Nonpolar
- ✗ Multilevel

2. In amplitude shift keying, the amplitude of the carrier signal is varied to create \_.

- ✗ Signal rate
- ✓ Signal elements
- ✗ Frequency
- ✗ Modules

3. In ASK, correct formula for calculating the bandwidth is as:

- ✗  $B = (d - 5) s$
- ✓  $B = (d - 1) s$
- ✗  $B = (1 * d) s$

4. \_ is normally used where speed is priority in data transfer.

- ✓ Parallel data transmission
- ✗ Serial data transmission

- Both parallel and serial transmission
  - Hybrid data transmission
5. We quantize the sampling output into certain levels based on range of \_ and required accuracy.
- Amplitude
  - Frequency
  - Time Period
6. In the analog transmission of digital data, the baud rate is to the bit rate.
- greater than
  - less than or equal
  - greater than or equal
  - less than
7. \_ technique does not follow analog to analog conversion.
- FM
  - QAM
8. If data rate is to be 1 Mbps, then what will be the minimum bandwidth required for NRZ-I coding scheme?
- 1 kHz
  - 0.5 kHz
  - 200 kHz
9. We can have combination of \_ possible codes with a 5-bit code.
- 16
  - 32
10. \_ is a block coding method.
- NRZ-I
  - NRZ
  - 8B/10B

1. RIP is used by \_\_\_\_\_

- Hub
  - Amplifier
  - Repeater
  - Router
- 

2. \_ is not a routing protocol.

- iP
  - RIP
- 

3. Which of the following address is used to get packets from a network?

- Hardware
  - Port
  - Logical
  - Physical
- 

4. Which of the following type of protocol determines the path of a packet through an inter-network?

- Rated
  - Routed
  - Routing
- 

5. \_ routing technique uses manual configuration.

- Alternative
  - Passive
  - Dynamic
  - Static
- 

6. In routing, there is no bandwidth usage between routers.

- Static
- 

7. Which of the following is a routed protocol?

- POP
  - RIP
  - IP
- 

8. Routing technique uses manual configuration.

- Static
- 

9. In routing, network parameters and environment are expected to remain constant.

- Static
- 

10. In routing, all jobs are done automatically by the routing protocol.

- Auto
  - Direct
  - Dynamic
- 

11. \_\_\_\_\_ protocols determine the method of packet delivery.

- Routed
  - Rotted
  - Rolling
- 

1. In Pulse code modulation the term sampling can also be referred as

- Pulse sample Modulation
- Pulse Amplitude Modulation ✓
- Pulse Frequency Modulation
- Pulse Line Modulation

2. **When the bandwidth of a link is greater than the combined bandwidths of the signals, we use multiplexing.**
  - Hybrid division
  - Wavelength division
  - Frequency division ✓
  - Time division
3. **The conversion of sample of the signal into \_\_\_\_\_ form is called quantizing process.**
  - Analog, Digital ✓
  - Frequency, Amplitude
  - Amplitude, Frequency
  - Frequency, Bit Stream
4. **EEE technique does not follow analog to analog conversion.**
  - PM
  - FM
  - QAM ✓
5. **A variation of AMI encoding is called as**
  - Uni-code
  - Pseudoternary ✓
  - Uni-polar
6. **Polar encoding scheme uses \_\_\_\_\_ voltage level.**
  - 1
  - 2 ✓
7. **While implementing Binary ASK or On-Off Keying (OOK), the binary number 1 is used for**
  - binary stream of 1s ✓
  - Maintaining the amplitude
  - No amplitude
  - Numbers of 1s in data
8. **In case of Frequency shift key, the difference between two frequencies is represented as**
  - $2A$  ✓

- 2x5 A
- 6A
- 3A

9. In analog telephone system, a voice channel contains frequency of

- 25kHz
- 12kHz
- 4kHz ✓
- 30kHz

10. Manchester encoding scheme achieves the same level of synchronization as

- NRZ
- Differential Manchester ✓
- RZ
- NRZ-I

1. \_\_\_\_\_ is the heart of block coding.

- A) Division Coding
- B) Substitution
- C) Multiplication
- Correct Option: B) Substitution

2. HDB3 falls under which coding scheme?

- A) Line
- B) Biphasic
- C) Block
- Correct Option: C) Block

3. A connecting device \_\_\_\_\_ in a network.

- A) Manages network security
- B) Determines the type of data transmitted in the network

- C) Provides power supply to network devices
- Correct Option: A) Manages network security

4. During transmission, \_\_\_\_\_ is the effect of one wire on the other.

- A) Thermal noise
- B) Induced noise
- C) Crosstalk
- Correct Option: C) Crosstalk

5. \_\_\_\_\_ is the last step in PCM encoding technique.

- A) Substitution
- B) Sampling
- C) Quantizing
- Correct Option: C) Quantizing

6. Identify the correct formula to calculate Propagation time.

- A) Propagation time = throughput / (Propagation Speed)
- B) Propagation time = Distance / (Propagation Speed)
- C) Propagation time = Delay / (Propagation Speed)
- Correct Option: B) Propagation time = Distance / (Propagation Speed)

7. The communication at the Application, Transport and Network layer is \_\_\_\_\_.

- A) Logical
- B) Physical
- C) Rational
- Correct Option: A) Logical

8. In Manchester and differential Manchester encoding schemes, the signal rate is \_\_\_\_\_ than that of NRZ.

- A) Lower
- B) Triple
- C) Equal
- Correct Option: C) Double

9. In a complex network communication, we need a protocol at each layer, this process is called \_\_\_\_\_.

- A) Redundancy
- B) Protocol Layering
- C) Topology
- Correct Option: B) Protocol Layering

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

- A) Application
- B) Transport
- C) Network
- Correct Option: A) Application

1. Header size \_\_\_\_\_ while moving down the layers at sending side.

- Remain same
- Increases
- Headers and layers are unrelated
- Decreases
- Correct Option: Decreases

2. In scrambling coding scheme, the number of pulses replacing the bits will be \_\_\_\_\_ ?

- Half of the pulses
- Double the pulses
- Triple the pulses

- Equal to pulses
- Correct Option: Equal to pulses

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

- Parallel data transmission
- Both parallel and serial transmission
- Hybrid data transmission
- Serial data transmission
- Correct Option: Parallel data transmission

4. Routing is the function of \_\_\_\_\_ layer.

- Datalink
- Physical
- Transport
- Network
- Correct Option: Network

5. Suppose a signal is attenuated then the value of decibel will be \_\_\_\_\_.

- 0
- Negative
- Positive
- 1
- Correct Option: Negative

6. \_\_\_\_\_ is the process of converting binary data to a digital signal.

- FSK
- QAM
- Line coding

- ASK
- Correct Option: Line coding

7. In a \_\_\_\_ topology, each computer or station is linked to others in a circular arrangement.

- Star
- Ring
- Bus
- Mesh
- Correct Option: Ring

8. 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.

- Both parallel and serial transmission
- Serial data transmission
- Hybrid data transmission
- Parallel data transmission
- Correct Option: Serial data transmission

9. Manchester encoding scheme uses an inversion at the \_\_\_\_\_ of each bit.

- End
- Middle
- Start
- None of the given
- Correct Option: Middle

10. In transmission impairments \_\_\_\_\_ occurs from a signal with a high energy with a very short period of time.

- Induced noise
- Impulse noise

- Thermal noise
- Cross talk
- Correct Option: Impulse noise

1. The communication at the Application, Transport and Network layer is \_\_\_\_\_.

- Options:
  - A) Real
  - B) Physical
  - C) Rational
  - D) Logical
- Correct Option: D) Logical

2. In Ring topology, each node has a point to point dedicated link with \_\_\_\_\_.

- Options:
  - A) Exactly 3 nodes
  - B) Exactly 2 nodes
  - C) Exactly 1 node
  - D) More than 3 nodes
- Correct Option: B) Exactly 2 nodes

3. \_\_\_\_\_ signal completes a certain pattern in a specific amount of time.

- Options:
  - A) Periodic
  - B) Non-periodic
  - C) Wavelength
  - D) Aperiodic
- Correct Option: A) Periodic

4. When two people are talking to each other in a room then transmission medium between them is:

- Options:

- A) Air
- B) Wireless medium
- C) No medium required
- D) Cable

- Correct Option: A) Air

5. If a digital signal has four levels, then we need \_\_\_\_\_ bits to represent each level.

- Options:

- A) 1 bit
- B) 2 bits
- C) 3 bits
- D) 4 bits

- Correct Option: B) 2 bits

6. \_\_\_\_\_ is sometimes called the bit rate.

- Options:

- A) Data rate
- B) Modulation rate
- C) Pulse rate
- D) Signal rate

- Correct Option: D) Signal rate

7. DC component issue is solved in \_\_\_\_\_ coding scheme.

- Options:

- A) Bipolar
- B) Vector
- C) Line
- D) Biphase

- Correct Option: A) Bipolar

8. In \_\_\_\_\_ scheme, the bit is 0 if there is no change and the bit is 1 if there is a change.

- Options:

- A) Unipolar

- B) NRZ-L

- C) NRZ

- D) NRZ-I

- Correct Option: D) NRZ-I

9. Top most organization that provides support for the Internet Standard process is called \_\_\_\_\_.

- Options:

- A) Internet Architecture Board (IAB)

- B) IRTF

- C) IETF

- D) Internet Society (ISOC)

- Correct Option: A) Internet Architecture Board (IAB)

10. \_\_\_\_\_ protocol suite is being used by the modern internet communication.

- Options:

- A) ARPANET

- B) OSI

- C) TCP/IP

- D) Telnet

- Correct Option: C) TCP/IP

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