

# Computer Networks

## SET-42

By

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1. In OSI model, which of the following layer provides error-free delivery of data?
  - A. Data link
  - B. Network
  - C. transport
  - D. Session
2. ARP (Address Resolution Protocol) is
  - A. a TCP/IP protocol used to dynamically bind a high level IP Address to a lowlevel physical hardware address
  - B. a TCP/IP high level protocol for transferring files from one machine to another
  - C. a protocol used to monitor computers
  - D. a protocol that handles error and control messages
3. One of the header fields in an IP datagram is the Time to Live (TTL) field. Which of the following statements best explains the need for this field?
  - A. It can be used to prioritize packets
  - B. It can be used to reduce delays
  - C. It can be used to optimize throughput
  - D. It can be used to prevent packet looping
4. In Ethernet when Manchester encoding is used, the bit rate is:
  - A. Half the baud rate.
  - B. Twice the baud rate.
  - C. Same as the baud rate.
  - D. none of the above
5. Which one of the following statements is FALSE?

- A. Packet switching leads to better utilization of bandwidth resources than circuit switching.
  - B. Packet switching results in less variation in delay than circuit switching.
  - C. Packet switching requires more per packet processing than circuit switching
  - D. Packet switching can lead to reordering unlike in circuit switching
6. The physical layer translates logical communication requests from the into hardware specific operations.
- A. Data link layer
  - B. Network layer
  - C. Transport layer
  - D. Application layer
7. is the multiplexing technique that shifts each signal to a different carrier frequency?
- A. FDM
  - B. TDM
  - C. Both FDM & TDM
  - D. PDM
8. In TDM, the transmission rate of a multiplexed path is always the sum of the transmission rates of the signal sources.
- A. Greater than
  - B. Lesser than
  - C. Equal to
  - D. Equal to or greater than
9. A network router joins two \_\_\_\_\_ together?
- A. Computers



- B. Switches
- C. Networks
- D. Gateway

**10. From the options below, which suits best for MODEM?**

- A. a device that modulates an analog carrier signal to encode digital information
- B. a device that modulates a digital carrier signal to encode analog information
- C. a device that modulates an analog carrier signal to decode digital information
- D. a device that modulates a digital carrier signal to decode analog information

**11. \_\_\_\_\_ is a standard suite of protocols used for packet switching across computer networks.**

- A. x.22
- B. x.23
- C. x.25
- D. x.26

**12. NAT stands for \_\_\_\_\_ .**

- A. network address transformer
- B. network address translator
- C. network address translation
- D. Both B and C above

**13. Both ping and tracert are used to find If the computer is in the**

- A. True
- B. False

**14. In the OSI model, as a data packet moves from the lower to the upper layers, headers are \_\_\_\_\_**

- A. added
- B. removed
- C. rearranged
- D. Modified

**15. 9 93. Determine the maximum length of the cable (in km) for transmitting data at a rate of 500 Mbps in an Ethernet LAN with frames of size 10,000 bits. Assume the signal speed in the cable to be 2,00,000 km/s.**

- A. 1
- B. 2
- C. 2.5
- D. 5

**16. Which of the following device is used to connect two systems, especially if the systems use different protocols?**

- A. hub
- B. bridge
- C. gateway
- D. repeater

**17. In an Ethernet local area network, which one of the following statements is TRUE?**

- A. A station stops to sense the channel once it starts transmitting a frame.
- B. The purpose of the jamming signal is to pad the frames that are smaller than the minimum frame size.
- C. A station continues to transmit the packet even after the collision is detected.

- D. The exponential back off mechanism reduces the probability of collision on retransmissions

**18. ASK, PSK, FSK, and QAM are examples of \_\_\_\_\_ encoding.**

- A. digital-to-digital
- B. digital-to-analog
- C. analog-to-analog
- D. analog-to-digital

**19. Which of the following system calls results in the sending of SYN packets?**

- A. socket
- B. bind
- C. listen
- D. connect

**20. In Ethernet CSMA/CD, the special bit sequence transmitted by media access management to handle collision is called**

- A. Preamble
- B. Post amble
- C. Jam
- D. None of the above



ANSWER							
1.	C		11.	C		21.	
2.	A		12.	C		22.	
3.	D		13.	B		23.	
4.	A		14.	B		24.	
5.	B		15.	B		25.	
6.	A		16.	C			
7.	A		17.	D			
8.	A		18.	B			
9.	C		19.	D			
10.	A		20.	C			