# Computer Networks

**SET-48** 

By

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- 1. What operates in the Data Link and the Network layer?
  - A. NIC
  - B. Bridge
  - C. Brouter
  - D. Router
- 2. What is the first octet range for a class A IP address?
  - A. 1 126
  - B. 192 255
  - C. 192 223
  - D. 1 127
- 3. Terminals are required for
  - A. real time, batch processing, and timesharing
  - B. real time, timesharing, and distributed processing
  - C. real time, distributed processing, and manager inquiry
  - D. real time, timesharing, and message switching
- In the slow start phase of the TCP congestion control algorithm, the size of the congestion window.
  - A. does not increase
  - B. increases linearly
  - C. increases quadratically
  - D. increases exponentially
- 5. 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
- 6. In a packet switching network, if the message size is 48 bytes and each packet contains a header of 3 bytes. If 24 packets are required to transmit the message, the packet size is .
  - A. 2 bytes
  - B. 1 bytes
  - C. 4 bytes
  - D. 5 bytes
- 7. Wireless transmission of signals can be done via
  - A. Radio waves
  - B. Microwaves
  - C. Infrared
  - D. All of the mentioned
- 8. If there are n signal sources of same data rate, then the TDMlink has slots.
  - A. N
  - B. n/2
  - C. n\*2
  - D. 2n
- 9. Transmission delay does not depend on
  - A. Packet length
  - B. Distance between the routers
  - C. Transmission rate
  - D. Bandwidth of medium

10. Whi	ich of the following below is a loopback IP
add	ress?
A.	127.0.0.0
В.	127.0.1.1
C.	127.0.1.0
D.	127.0.0.1
11. UDF	is an unreliable protocol.
A.	True
В.	False
12	assigns a unique number to each IP
net	work adapter called the MACaddress.
A.	Media Access Control
В./	Metro Access Control
( c.	Metropolitan Access Control
D.	Both B and C above
13. Who	en computers in a network listen and receive
the	signal, it is termed as active toplogy.
A.	True
В.	False
14. MA	C addressing works in data link layer while IP
add	ressing works in the network layer?
A.	True
В.	False
15. An I	P address contains bits ?
A.	8
В.	16
C.	32
D.	64

## 16. The Internet Control Message Protocol (ICMP)

- A. allows gateways to send error a control messages to other gateways or hosts
- B. provides communication between the Internet Protocol Software on one machine and the Internet Protocol Software on another
- C. reports error conditions to the original source, the source must relate errors to individual application programs and take action to correct the problem
- D. All of the above

<b>17.</b>	The	<b>PSTN</b> is	an exam	ple of a	network
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- A. packet switched
- B. circuit switched
- C. message switched
- D. None of these

# 18. If a file consisting of 50,000 characters takes 40 seconds to send, then the data rate is

- A. 1 kbps
- B. 1.25 kbps
- C. 2 kbps
- D. 10 kbps

# 19. DSL stands for \_\_\_\_\_

- A. data subscriber lines
- B. dual subscriber lines
- C. delay subscriber lines
- D. digital subscriber lines

20. Station A needs to send a message consisting of 9 packets to Station B using a sliding window (window size 3) and goback-n error control strategy. All packets are ready and immediately available for transmission. If every 5th packet that A transmits gets lost (but no acks from B ever get lost), then what is the number of packets that A will transmit for sendingthe message to B?

A. 12 C. 16 B. 14 D. 18

							500
			ANSWER				3
1.	C	8	11.	J'A		21.	1/5
2.	Α		12.	A		22.	1-/5
3.	D	9	13.	А		23.	
4.	9	. 1	14.	A	- 2	24.	)
5.	В	1	15.	C		25.	
6.	D		16.	) <b>D</b>			
7.	D		17.	В			
8.	Α		18.	D			
9.	В		19.	D			
10.	D		20.	С			