COMPUTER NETWORK

1.	between two nodes send a frame at t	is 275 bit times. Sup	s collide. Then at wh	I the propagation delay wo ends of the wire and tries to nat time (in bits) they finish				
	A. 598	B. 323	C. 502	D. 227				
2.	stations. Token is o	of 3 Bytes and propag n ring in the monitor	gation delay is 2.4 * 10	t from its neighbouring 8 m/sec. To avoid overlapping artificial delay into ring. How D. 5				
	Common Data Questions: Q.3 and Q.4							
3.	8. A group of N stations share 100 Kbps slotted ALOHA channel. Each station output, a 500 bits frame on an average of 5000 ms; even if previous one has not been sent. What is the required value of N?							
4.	4. What if Pure ALOHA channel is used in previous question instead of slotted ALOHA?							
5.	Consider a MAN with server and destination of 20 km apart and one way delay is 2 minutes. At what data rate does RTT equals to transmission delay for 2 KB data?							
	A. 41 bits/ sec	B. 68.2 bps	C. 69 bps	D. 40 bps				
	Data Linked Type Question: Q.6 and Q.7							
6.	A 3000 km long trunk operates at 1.536 Mbps and it is used to transmit 64 Bytes frames. If it uses sliding window protocol then what is the number required sequence numbers. Assume propagation speed of 8 microsec/ km?							
	A. 63	B. 110	C. 123	D. 145				
7.	7. What is the number of sequence bits used in above question (Number of bits used for sequence number) ?							
8.	A system with redu	ndant bridges might l	nave a problem with	in the system.				
	A. Loops	B. Flooding	C. Filters	D. All of the above				

	Let bandwidth of a toker and maximum payload s	-	THT be 15ms. What is	s the maximum frame size		
10	 10. Length of a 16 Mbps token ring network is 1000 meters. Speed of propagation in calcommod 60% of the speed of light. Each station holds token for 5 μsec. How long does it take Byte token to go around the ring? (The number of stations in ring = 20) A. 1.36 μsec B. 5.56 μsec C. 1.36*10⁻⁴ sec D. 1.06*10⁻⁴ sec 					
	Α. 1.30 μsec	B. 3.30 μsec	C. 1.30 10 Sec	D. 1.00 10 Sec		
11.	•			eed of light is 60% of the ring with no other delay? D. 1100 mtr		
12	. If we have only 600 mt previous question so th	at token ring operate				
	A. 9 bits	B. 11 bits	C. 26 bits	D. 12 bits		
13.	. Consider a 10 Mbps tol seizes the token, then it circulated all around the frame. Assuming that of	sends a frame of 10 e ring and finally rel	00 Bytes. Removes the eases the token. This p	e frame after it has rocess is repeated for every		
14.	A. Translate URLs to II B. Resolve IPV4 addre C. Provide dynamic IP D. Convert interval priv	P Address. sses to MAC address configuration to net	work devices.			
15	In a network of LANs of through intermediate by A. For shortest path rou B. For avoiding loops i C. For fault tolerance D. For minimizing collings.	ridges. Why is the spating between LANs in the routing paths	panning tree algorithm	one LAN to another used for bridge routing?		
16	The subnet mask for a part of the su	ong to this network? 72.57.87.233 5.29.4 91.234.31.88	255.255.252.0. Which	of the following pairs of		

17. An organization has a class-B network and wishes to form subnets for 24 departments. The subnet mask would be:

A. 255.255.224.0

B. 255.255.240.0

C. 255.255.248.0

D. 255.255.252.0

18. The routing table of a router is shown as below:

Destination	Subnet Mask	Interface
128.75.43.0	255.255.255.0	Eth0
128.75.43.0	255.255.255.128	Eth1
192.12.17.5	255.255.255.255	Eth2
Default		Eth3

On which interface will the router forward packets addressed to destinations 128.75.43.16 and 192.12.17.10 respectively?

A. Eth1 and Eth3

B. Eth0 and Eth3

C. Eth0 and Eth2

D. Eth1 and Eth2

19. In IP4 addressing format, the number of networks allowed under Class-C address is:

A. 2^{24}

B. 2^{21}

C. 2⁸

D. 2^8-2

20. Suppose a subnet 'X' has a subnet mask 255.255.192.0 and a system A has IP

157.106.46.234. Which of the following belongs to same network A?

- A. 157.106.65.03
- B. 157.106.142.77
- C. Both (A) and (B)
- D. None of these