

## Question Bank

SUBJECT: COMPUTER NETWORK & INTERNET  
SEMESTER: VII SEM

SR		Marks
1.	Using polynomial code checksum method find transmitted frame for: Frame = 1101011011 Generator = 10001	6
2.	Explain: 1) CSMA 2) CSMA/CD	4
3.	Explain 1-persistence, non-persistence and p-persistence CSMA protocol.	6
4.	Write short notes on error detection codes.	5
5.	Write short note on cyclic redundancy cycle.	5
6.	What are sliding window protocol? Explain it for window size of three.	5
7.	Explain Go back-n protocol by means of flowchart. Assuming 3-bit sequence number. Why sender is restricted to transmit up to seven frames before being required to wait for acknowledgement?	7
8.	Explain in brief bit stream flag with stuffing method of framing.	3
9.	Explain various method of framing with suitable examples	6
10	What is piggybacking and pipelining?	3
11	Explain collision free protocol.	5
12	Explain in brief the IEEE standard 802.5 token ring.	7
13	Draw and explain IEEE 802.3Lan Standard frame format.	7
14	Compare the details of virtual circuit and datagram subnet.	7
15	Explain shortest path routing algorithm with an example.	5
16	Explain all issues related to link-state routing algorithm	7
17	Explain flooding routing algorithm giving the ways to restrict the number of duplicate packet generated.	7
18	Explain the method of choke packets used for congestion control.	3
19	What is congestion? How is it different from flow control? Explain Leaky-bucket-algorithm. What is significance of load shedding and jitter control in congestion handling	7
20	Discuss any two adaptive and any two non-adaptive routing algorithms.	8
21	Explain with figure the broadcast and multicast routing.	7
22	Write short note on Internet Protocol(IP)	6
23	Explain the classification of IP addressing in brief with suitable example.	5
24	What are the various parameters of quality of services (QOS) offered by transport layer? Discuss their significance.	9
25	Write short note on TCP (Transmission control protocol).	6
26	Differentiate between Secret key encryption and Public key encryption.	4
27	Write note on Digital signature.	4
28	Write short note on i) Secret-key algorithm ii) Public-key algorithm iii) Digital signature with public key algorithm	13