



SRI KRISHNA INSTITUTE OF TECHNOLOGY

(Accredited by NAAC, Approved by A.I.C.T.E. New Delhi, Recognised by Govt. of Karnataka & Affiliated to V.T U., Belagavi)
#57, Chimney Hills, Hesaraghatta Main Road, Chikkabanavara Post, Bengaluru- 560090

Department of Artificial Intelligence and Machine Learning

Subject Name: Computer Networks

Subject Code: BCS502

SEM: V

Faculty: Ms. Ramya H

Module-1 Question Bank

SL no	Question	CO	Level	Marks	Module
1.	What is Data Communication. Explain the fundamental Characteristics and components of Data Communication.	CO1	L1	5	1
2.	Explain TCP/IP reference model with diagram?	CO1	L2	10	1
3.	Explain the following networking devices in detail a) Switch b) Router c) Bridge d) Gateway e) Repeater f) Hub	CO1	L2	6	1
4.	Write a note on point to point and Multipoint connection	CO1	L1	5	1
5.	What is network topology? Explain the different network topologies.	CO1	L1	10	
6.	Explain the concept of switching and types of switching.	CO1	L2	10	1
7.	Explain guided transmission media with diagram?	CO1	L2	10	1
8.	Explain types of unguided media	CO1	L2	10	1
9.	Explain in brief about coaxial cable	CO1	L2	10	1
10.	Write a note on fiber optic cable	CO1	L1	10	1
11.	Write a note on Datagram network	CO1	L1	10	1
12.	Explain briefly about virtual circuit switching network	CO1	L2	10	1
13.	What is protocol layering? What are its advantages and disadvantages	CO1	L1	10	1
14.	Explain OSI model with neat diagram	CO1	L2	10	1
15.	Mention types of packet switching. Explain any one type with neat diagram	CO1	L2	6	1



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Module-2 Question Bank

SL#	Question	CO	Level	Marks	Module
1.	What is Error? Explain types of error	CO2	L1	5	2
2.	Write a note on Data link control services	CO2	L1	10	2
3.	Differentiate between character oriented and bit-oriented format for Framing	CO2	L4	5	2
4.	Explain CRC with block diagram & an example.	CO2	L2	10	2
5.	Explain the concept of checksum	CO2	L2	10	2
6.	Compare flow control and error control	CO2	L4	5	2
7.	Describe the following: 1) Fletcher checksum 2) Adler checksum	CO2	L2	10	2
8.	Explain Stop-and-Wait protocol	CO2	L2	10	2
9.	Explain in detail about Pure ALOHA and Slotted ALOHA.	CO2	L2	10	2
10.	Explain HDLC protocol in detail. Explain three structures of HDLC frames. Briefly explain control field of S frame.	CO2	L2	10	2
11.	Explain Point to Point protocol in detail.	CO2	L2	10	2
12.	What is CSMA? Explain three persistent methods of CSMA	CO2	L2	10	2
13.	Explain CSMA with Collision Detection (CSMA/CD).	CO2	L2	10	2
14.	Explain CSMA with Collision Avoidance (CSMA/CA).	CO2	L2	10	2
15.	Explain in brief about controlled access	CO2	L2	10	2
16.	List services of networking layer. Explain any three	CO2	L2	10	2

Faculty Signature