SRI KRISHNA INSTITUTE OF TECHNOLOGY

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Department of Computer Science & Engineering

Subject Name: Computer Networks **Subject Code: BCS502**
SEM: 5 **DIV: A**
ACADEMIC YEAR: 2026-2027

Faculty: Mrs. Harshitha H C

Module-2 Question Bank

Sl. No	Question	CO	Level	Marks
1	What is CSMA? Explain three persistent methods of CSMA.	2	L2	10
2	Write the S Frame format of HDLC and explain the individual field of it.	2	L2	8
3	Define CRC. Find the code word using CRC for data word 10110 and divisor 1101.	1	L3	10
4	What is bit oriented framing and its frame pattern. Explain with example byte stuffing and unstuffing in bit-oriented framing.	2	L2,L3	7
5	Explain briefly the Stop and Wait protocol for the data link layer with block diagram and FSM.	2	L2	10
6	Solve using Cyclic Redundancy Check. Dataword:1001, Divisor-1011.	2	L3	7
7	Draw neatly the three structures of HDLC frames and explain the control field of S frame.	2	L2	8
8	What is PPP? What are the services provided by PPP?	2	L2,L3	6
9	Draw and explain the flowchart of Adler Checksum and calculate the checksum of 110010101111 at both sender and receiver side.	1	L3	10
10	What is the difference between ALOHA and Slotted ALOHA.	2	L2	6
11	Explain Simple Protocol for the data link layer with block diagram and FSM.			
12	With a neat diagram, explain the transition phases of PPP.	2	L2	5
13	List the services of the data link layer and explain them.			
14	With a neat diagram, explain the frame structure of PPP.	2	L2	5
15	Explain the flow diagram of CSMA/CD and explain.	2	L2	7

Faculty Signature