	Adhiyamaan College of Engineering (Autonomous)	
	Question Paper	CSE
B. E. COMPUTER SCIENCE ENGINEERING		Branch: DEPARTMENT OF COMPUTER SCIENCE ENGINEERING
Semester: II-CSE-C		Academic Year: 2024-25
Course Code: 422CII05	L-T-P Credits: 3-0-0-3	Course Name: NETWORK ESSENTIALS
Time: 2 Hrs.	CIA I	Date: 07.02.2025	Maximum Mark: 50

No.	Question	Mark	CO	BL

PART A

No.	Question	Mark	CO	BL
1	Compare the following networking devices: i) Hub and Switch ii) Router and Bridge	2.0	CO1	1
2	What is wireshark? Define color coding in wireshark.	2.0	CO1	2
3	Differentiate between Bandwidth, Latency and Throughput.	2.0	CO1	1
4	Describe in detail about types of error with an example.	2.0	CO2	2
5	Find LRC for the given data bits: 11001101 10101111 10101001 00110011	2.0	CO2	3

PART B

No.	Question	Mark	CO	BL
6	Brief in detail about topologies of network with neat diagram.	8.0	CO1	1
7	With suitable diagram, describe the types of network in detail.	8.0	CO1	2
8	Define data transmission. Explain in detail about different types of transmission with diagram.	8.0	CO1	2
9	Explain the OSI reference model with a neat block diagram.	8.0	CO2	2
10	i) Find CRC for the given data 100100 using divisor X^3+X^2+1. ii) Find checksum for the given frames 11001100 10101010 11110000 11000011	8.0	CO2	4

Question Paper Level: 106/50=2.12

CO: Course Outcomes

- CO1: Understand the basic layers and its functions in computer networks.
- CO2: Explore various flow and error control protocols in data link layer.