and Forwarding.	Reg. No.	1 130		, is	X	4					
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023

Fourth Semester

Computer Science and Engineering

(Common to Information Technology & Artificial Intelligence and Data Science)

20CSPW401 - COMPUTER NETWORKS WITH LABORATORY

(Regulations 2020)

Duration: 3 Hours Max. Marks: 100

		PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions	
15.42c		t) Describe about 1CP in detail with pest diagram.	Marks, K-Level, CO
1.		nat are the features provided by layering?	2,K1,CO1
2.	De	fine network and its types.	2,K1,CO1
3.	W	nat are the functions of MAC?	2,K1,CO2
4.	What is the role of LLC in the data link layer?		
5.	List the salient features of IPv4.		2,K2,CO3
6.	What is flow Control?		2,K1,CO3
7.	De	fine IP spoofing.	2,K1,CO4
8.	W	nat is multicasting?	2,K1,CO4
9.	List the advantage of IMAP.		2,K1,CO6
10.	De	fine Hypertext and hypermedia.	2,K1,CO6
		PART - B (5 × 13 = 65 Marks) Answer ALL Questions	
11.	a)	(i) Explain the Topologies of the Computer Network.	7,K2,CO1
		(ii) Explain Protocol Layering with neat diagram. OR	6,K2,CO1
	b)	Explain OSI Layer and the functions of each layer.	13,K2,CO1
12.	a)	Define Ethernet. Explain the working principle of Ethernet and its frame format.	13,K2,CO2
		OR	
	b)	Explain the architecture and techniques used in BLUETOOTH.	13,K2,CO2
13.	a)	Discuss in detail about the problems associated with Ethernet LAN. OR	13,K2,CO3
	b)	Explain about collision avoidance in Wi-Fi (802.11).	13,K2,CO3

12076

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

14.	a)	(1) Explain in detail about Switching and Forwarding.	7,K2,CO4
		(ii) Explain in detail about the concept of connection-oriented service. OR	6,K2,CO4
	b)	Explain the concept to include the role of IP addresses in forwarding.	13,K2,CO4
15.	a)	Explain various protocols used in Electronic mail. OR	13,K2,CO6
	b)	Discuss in detail about MIME type.	.13,K2,CO6
		PART - C $(1 \times 15 = 15 \text{ Marks})$	
16.	a)	Define UDP. Discuss the operations and checksum of UDP with an example.	15,K2,CO5
		OR	
	b)	Describe about TCP in detail with neat diagram.	15,K2,CO5