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	Reg. No.		
	Question Paper Code12292		
B.E./B.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023			
Sixth Semester			
Computer Science and Business Systems			
20CBPC601 - COMPUTER NETWORKS			
(Regulations 2020)			
Dur	-	Max. Ma	arks: 100
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions			
1.		rks.	Marks, K-Level, CO 2,K2,CO1
2.	1 I		2,K1,CO1
3.	-		2,K1,CO2
4.	Define Hidden node problem.		2,K1,CO2
5.	Differentiate between forwarding table and routing table.		2,K2,CO3
6.	Check whether the following IPv6 address notations are correct. (a) FE80:2030:31:24 (b) AE82::1:800:23E7:F5DB		2,K1,CO3
7.	What is meant by slow start in TCP congestion?		2,K1,CO4
8.	What is the use of RED algorithm?		2,K1,CO4
9.	Present the information contained in DNS resource record.		2,K2,CO5
10.	. What is the use of SNMP protocol in a network?		2,K1,CO5
11.	PART - B ($5 \times 16 = 80$ Marks) Answer any Five questions . With the neat sketch explain the functions of TCP/IP	network	16,K2,CO1
10	architecture.		16 12 001
12.			16,K2,CO1
13.	. Describe the functions of ARP and RARP protocols with frame fo	rmats.	16,K2,CO2

- 14. Explain the function of IEEE 802.3 LAN Standard with its frame format. 16,K2,CO2
- 15. With an example network scenario explain the mechanism of distance *16,K2,CO3* vector routing algorithm and build the routing table for the same.
- 16. Draw a TCP state transition diagram for connection management and ^{16,K2,CO4} explain the three way handshaking in TCP.

17. Write a detailed note on congestion avoidance mechanisms used in TCP. 16,K2,CO4

18. Discuss in detail about FTP and SMTP. *16,K2,C05*