Reg. No.													
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Question Paper Code 12290

B.E. / **B.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023**

Sixth Semester

Electronics and Communication Engineering 20ECPC602 - COMMUNICATION NETWORKS

(Regulations 2020)

Duration: 3 Hours Max. Marks: 100

PART - A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

List the metrics that influence the performance of computer networks.

1.	List the metrics that influence the performance of computer networks.	
2.	What is transmission media? Give example.	2,K1,CO1
3.	List out the functions of data link layer.	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
	$PART - B (5 \times 16 = 80 \text{ Marks})$	
11.	Answer any Five questions With the neat sketch explain the functions of TCP/IP network	16,K2,CO1
	Answer any Five questions With the neat sketch explain the functions of TCP/IP network architecture.	16,K2,CO1
12.	Answer any Five questions With the neat sketch explain the functions of TCP/IP network architecture. Explain in detail about the types of switching in networks.	
12. 13.	Answer any Five questions With the neat sketch explain the functions of TCP/IP network architecture. Explain in detail about the types of switching in networks. Describe the functions of ARP and RARP protocols with frame formats.	16,K2,CO1
12.	Answer any Five questions With the neat sketch explain the functions of TCP/IP network architecture. Explain in detail about the types of switching in networks. Describe the functions of ARP and RARP protocols with frame formats. Explain the function of IEEE 802.3 LAN Standard with its frame format. With an example network scenario explain the mechanism of distance	16,K2,CO1 16,K2,CO2
12. 13. 14.	Answer any Five questions With the neat sketch explain the functions of TCP/IP network architecture. Explain in detail about the types of switching in networks. Describe the functions of ARP and RARP protocols with frame formats. Explain the function of IEEE 802.3 LAN Standard with its frame format.	16,K2,CO1 16,K2,CO2 16,K2,CO2
12. 13. 14. 15.	Answer any Five questions With the neat sketch explain the functions of TCP/IP network architecture. Explain in detail about the types of switching in networks. Describe the functions of ARP and RARP protocols with frame formats. Explain the function of IEEE 802.3 LAN Standard with its frame format. With an example network scenario explain the mechanism of distance vector routing algorithm and build the routing table for the same. Draw a TCP state transition diagram for connection management and	16,K2,CO1 16,K2,CO2 16,K2,CO2 16,K2,CO3

Marks, K-Level, CO

2,K2,CO1