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Question Paper Code	12782
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Sixth Semester

Electrical and Electronics Engineering
20ECO910 - COMPUTER NETWORKS
 Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	Marks	K- Level	CO
1. Differentiate circuit switched network and packet switched network.	2	K2	CO1
2. What is transmission media? Give example.	2	K1	CO1
3. What happens in three way handshaking between any two devices?	2	K1	CO2
4. List out the functions of data link layer.	2	K1	CO2
5. State the function of bridges.	2	K1	CO3
6. Define the terms bandwidth and latency.	2	K1	CO3
7. What is the purpose of NAT?	2	K1	CO4
8. What is the use of RED algorithm?	2	K1	CO4
9. Draw the format of IP type of service(ToS) field in QoS.	2	K1	CO5
10. Why QoS is considered at the network layer?	2	K1	CO5

PART - B (5 × 16 = 80 Marks)

Answer ALL Questions

11. With the neat sketch explain the functions of OSI network architectures.	16	K2	CO1
12. Differentiate classful and classless IP address and explain IPv4 with its header format.	16	K2	CO3
13. With the neat sketch explain the functions of TCP/IP network architectures.	16	K2	CO2
14. With an example network scenario explain the mechanism of link state routing algorithm and build the routing table for the same.	16	K2	CO4
15. Elaborate on TCP congestion control mechanisms.	16	K2	CO3
16. With the frame formats and neat sketches, explain in detail about DNS Resource Record.	16	K2	CO5
17. Explain in detail about UDP with a neat sketch.	16	K2	CO2
18. Explain in detail about the types of switching in networks.	16	K2	CO1