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**Question Paper Code: 45802**

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Fifth Semester

Information Technology

14UIT502 - COMPUTER NETWORKS

(Common to Computer Science and Engineering)

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

**(Answer any ten of the following questions)**

1. State the issues of data link layer.
2. Compare error detection and correction.
3. How does a bridge differ from a repeater?
4. What is piconet?
5. Give the difference between packet switching and circuit switching.
6. Mention the uses of ARP and RARP protocols.
7. Why “A priority queue can provide better QoS than the FIFO queue”?
8. List some of the quality of service parameters of transport layer.
9. Mention the different levels in domain name space.
10. Define WWW and SMTP.
11. Define ICMP.

12. Name the different fields in pseudo header.
13. What is RED?
14. State the function of SMTP.
15. Name four factors needed for a secure network.

PART – B (3 x 10= 30 Marks)

**(Answer any three of the following questions)**

16. Draw and explain the different layers of OSI architecture. (10)
17. Explain the physical properties of Ethernet 802.3 with necessary diagram of Ethernet transceiver and adaptor. (10)
18. With example explain IP multicasting. (10)
19. Explain in detail about TCP with neat sketch. (10)
20. Discuss the role of a DNS on a computer network. (10)