Reg. No. :

Question Paper Code: 1044397

B.E. / B.Tech. DEGREE EXAMINATIONS, NOV / DEC 2024
Fourth Semester
Computer Science and Engineering
U20CS404/ U20AI401/ U20IT403 – COMPUTER NETWORKS
(Common to Artificial Intelligence and Data Science & Information Technology)
(Regulation 2020)

Time: Three Hours   Maximum: 100 Marks

Answer ALL questions

PART – A   (10 x 2 = 20 Marks)

1.   Why protocols are needed?

2.   Define packet switching.

3.   What are the responsibilities of data link layer?

4.   What is Ethernet?

5.   Define Routing.

6.   What is multicasting?

7.   Define TCP.

8.   What are the three events involved in the connection?

9.   What is the purpose of Domain Name System?

10.   Give the format of HTTP request message.

PART – B   (5 x 16 = 80 Marks)

11. (a)   Explain the OSI-ISO model of computer networks with neat   (16)
          diagram.

                              (OR)

    (b)   Explain the two approaches of packet switching techniques and circuit switching
          techniques.   (16)

12. (a)   Illustrate in detail about IEEE 802.11.   (16)

                              (OR)

    (b)   Summarize the term Media Access Control.   (16)

13. (a)   Discuss in detail about the various aspects of IPV6.   (16)

                              (OR)

    (b)   Discuss in detail about IP in detail.   (16)

14. (a)   With neat architecture, explain TCP in detail.   (16)

                              (OR)

    (b)   With neat architecture, explain UDP in detail.   (16)

15. (a)   Analyze Email protocols in detail.   (16)

                              (OR)

    (b)   Analyze SNMP and Telnet in detail.   (16)

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