1221

Code : 15CS34T

Register Number

III Semester Diploma Examination, April/May-2018
COMPUTER NETWORKS

Time : 3 Hours]   [Max. Marks : 100

Note :   (i)   Answer any **six** full questions from Part – **A**. Each carries **five** marks.
          (ii)   Answer any **seven** full questions from Part – **B**. Each carries **ten** marks.

PART – A   5 × 6 = 30
Answer any **six** full questions. Each carries **five** marks.

1.   Explain briefly the components of data communication with a diagram.   5

2.   List different network topologies. Explain with a diagram star topology.   5

3.   Explain the different types of errors with an example.   5

4.   Explain coaxial cable with a diagram.   5

5.   List the benefits of WLAN verses conventional LAN.   5

6.   Write a note on IPv6.   5

7.   Describe the content of routing table.   5

8.   Describe the components of VSAT network.   5

9.   Discuss point-to-point protocol.   5

PART – B   10 × 7 = 70

Answer any **seven** full questions. Each carries **ten** marks.

10.   Explain the different categories of networks.   **10**

11.   Explain OSI reference model with neat diagram.   **10**

12.   With an example, explain design of CRC encoder and decoder.   **10**

13.   Write a note on :   **10**
      (a)   CSMA/CD
      (b)   Polling

14.   Explain ARCNet and its data frame format.   **10**

15.   Explain FDDI Lower Layer Protocol.   **10**

16.   (a)   Explain TCP/IP middle layer protocol.   **10**
      (b)   Explain HTTP higher layer protocol.

17.   Write the features of IP address classes.   **10**

18.   Compare the features of Radio and Infrared waves.   **10**

19.   Describe different types of gateways.   **10**