1219

Code : 15CS34T

Register Number

COMPUTER NETWORKS

Time : 3 Hours]   **[Max. Marks : 100**

Instructions : (1) Answer any **six** questions from Part – A. Each carries **5** marks.

(2) Answer any **seven** questions from Part – **B**. Each carries **10** marks.

PART – A

1. Explain briefly the components of Data Communication with diagram.   **5**

2. Explain the functions of physical and data link layers of OSI Models.   **5**

3. Define the terms :   **5**

    (a) Burst Error

    (b) Redundancy

    (c) Forward Error Correction

4. Mention some standards of CRC polynomials.   **5**

5. Explain coaxial cable with a diagram.   **5**

6. List the LAN connectors used for twisted pair, coaxial and optical fibre cables.   **5**

7. Explain the components of an IP address.   **5**

8. Differentiate between LAN and WAN technologies.   **5**

9. Illustrate the different types of errors.   **5**

[Turn over

PART – B

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

11. Compare BUS and Ring Topologies with neat diagram.   **10**

12. Explain CSMA protocol.   **10**

13. Explain different types of twisted pair cables.   **10**

14. Compare the functions of Hub and Repeater.   **10**

15. Explain HTTP and SNTP higher layer protocol.   **10**

16. Explain the process of dividing a network into subnets.   **10**

17. Describe VSAT N/W Architecture and Access Technology.   **10**

18. Explain briefly source Route Bridge.   **10**

19. Describe PPP and X.25 Protocol.   **10**