2018
CSIT
CSIT: 2.1/406
DATA COMMUNICATION AND COMPUTER NETWORKS

Full Marks: 80

Time: 3 Hours

The figures in the margin indicate full marks for the questions :

1. What is Broadband and baseband communication? 2
2. What is Piggybacking 2
3. What is Differential Manchester Encoding? 2
4. What is socket? Give few example of socket. 3
5. What are the different types of transmission impairments? 4
6. Explain the working principle of fiber optics cable. 4
7. What is multiplexing? Describe various multiplexing techniques. 1+4=5
8. Explain various types of framing techniques of data link layer. 4
9. Explain sliding window protocol. 5
10. Explain Circuit switching and Packet switching network. 5
11. Explain various layers of TCP/IP Model in brief. 6
12. Give the Frame Relay Protocol Architecture and explain the functions of each one 6
13. Explain HDLC frame format. 6
14. Explain the details of TCP and UDP of transport layer protocol. 6
15. Explain in detail about the working principle of CSMA/CD. 5
16. Short notes (Any Three) 3x5=15
    a) ISDN
    b) VSAT technology
    c) X-25
    d) Token ring.