Roll No. ....   Total No. of Pages : 2

BT-6/JX   8729

Computer Communication Network

Paper : ECE-310E

Time : Three Hours]   [Maximum Marks : 100

Note :– Attempt **FIVE** questions in all, selecting at least **ONE** question from each Unit.

UNIT–I

1. (a) What are the Hardware and Software requirements to setup Computer Network ?   10

    (b) Differentiate N-ISDN and B-ISDN.   10

2. (a) Describe which types of Transmission media suitable for High Speed Networks.   10

    (b) Compare OSI and TCP/IP Reference models.   10

UNIT–II

3. What are various Data link layer protocols ? Explain in detail. 20

4. (a) Differentiate Packet Switching and Message Switching with suitable example.   10

    (b) Explain the working of Satellite Network.   10

UNIT–III

5. (a) Explain how to avoid and prevent congestion in network system.   10

    (b) What do you mean by Remote Procedure Call ?   10

6. (a) Explain Link State Routing algorithm.   10

    (b) Discuss Design issues of Transport Layer.   10

UNIT–IV

7. (a) Explain the working of POP3 and SMTP protocols.   10

   (b) What is the need of Data Compression ?   10

8. (a) What are the Design issues of Presentation Layer ?   10

   (b) Explain Public-key Cryptography with suitable example.   10