BT–6/J04

Computer Communication Networks

Paper : ECT-310

Time : Three Hours]   [Maximum Marks : 100

Note : Attempt **FIVE** questions in all. Q.No. 1 is compulsory. Attempt **ONE** question from each section A, B, C, D.

1. (a) Explain how the sender and receiver communicate using OSI model.

    (b) What are various IEEE standards ?

    (c) Explain the concept of electronic mail.   15

Section : A

2. What the principal difference between connectionless communication and connection oriented communication ?   15

3. Describe in detail ISDN system architecture.   15

Section : B

4. What are the main issues involved in the design of data link layer ?   15

5. Explain the operation of CSMA/CD technique completely.   15

Section : C

6. Describe link state routing & hierarchical routing.   15

7. Explain connection management in Transport & session layer.

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Section : D

8. Discuss traditional cryptography. Explain two fundamental cryptographic principles.   15

9. Discuss various design issues of application layers.   15

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