BT-5/D-23   45247

COMPUTER NETWORKS
(Elective–V)
ECO-1A

Time : Three Hours]   [Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Explain the role of protocols and standards in computer networks.   5

   (b) Explain OSI model.   5

   (c) Discuss Guided and Unguided media.   5

2. (a) Differentiate between Circuit Switching and Packet Switching.   10

   (b) Write a short note on ATM.   5

Unit II

3. (a) Describe Noiseless channels and Noisy channels.

                                                   10

   (b) Explain the data link layer design issues. 5

4. (a) What do you understand by ALOHA protocols ? Explain. **10**

(b) Write a short note on LAN protocols. **5**

Unit III

5. (a) Describe SNMP and ARP. **10**

(b) Discuss IPv4 addresses. **5**

6. (a) Write a short note on flow control and congestion control at the transport layer. **10**

(b) Write a short note on cryptography. **5**

Unit IV

7. Discuss the design issues of application layer. **15**

8. (a) Explain WWW and HTTP. **10**

(b) Discuss the electronic mail. **5**