

Roll No.

Total Pages : 02

BT-5/D-23

45275

COMPUTER NETWORK

ES-CS-AIML-305A

Time : Three Hours]

[Maximum Marks : 75

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

Unit I

1. (a) What do you mean by Computer Network ? Discuss different network topologies. 8
(b) Differentiate between frequency division multiplexing and time division multiplexing. 7
2. Discuss OSI reference model in detail with its *pros* and *cons*. 15

Unit II

3. Discuss different error detection and correction methods in detail. 15
4. (a) Differentiate between pure ALOHA and slotted ALOHA. 8
(b) What do you mean by CSMA collision detection ? Explain ? 7

Unit III

5. Explain link state routing protocol and distance vector routing protocol. 15
6. Write short notes on the following :
- (a) Flooding 8
 - (b) Difference between IPv4 and IPv6 7

Unit IV

7. Explain different congestion control algorithms. 15
8. Write short notes on the following :
- (a) Firewall 5
 - (b) Digital signatures 5
 - (c) Cryptography 5

EXAMKIT