

BT-7/D06**8920****Computer Network****Paper : CSE-303**

Time : Three Hours]

[Maximum Marks : 75

Note :- Attempt **FIVE** questions, selecting at least **ONE** from each unit.

UNIT-I

1. (a) Explain different Network Topologies with advantages and disadvantages. 7
- (b) Distinguish between the :
 - (i) Connectionless and Connection-Oriented Communications.
 - (ii) Synchronous and Asynchronous TDM. 8
2. (a) Give the architecture of TCP/IP reference model and justify why it is known as Protocol Stack. 10
- (b) Discuss the working of Broadband ISDN. 5

UNIT-II

3. (a) Explain the Go Back to n Sliding Window Protocol and why this protocol is known as pipelining ? 6
- (b) What are the services provided by Data Link Layer and how Framing is done ? 9
4. (a) Explain CSMA protocols in detail. 7
- (b) Explain the Fibre Distributed Data Interface for high speed LANs. 8

UNIT-III

5. (a) What are open loop and closed loop policies for Congestion Control ? Explain the role of Choke Packets Congestion Control. 7

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- (b) Explain the traffic shaping techniques for Congestion Control. 8
- 6. (a) Explain the QoS Architecture. 7
- (b) What is Datagram ? Distinguish between Virtual Circuit and Datagram Subnets. 8

UNIT-IV

- 7. (a) Distinguish between following :
 - (i) IP Address and Port Address
 - (ii) TCP and UDP. 10
- (b) Explain the fair queuing algorithm with example. 5
- 8. Write notes on following :
 - (i) ICMP
 - (ii) ARP
 - (iii) UDP. 15