

Roll No.

BCA/D-13

991

COMPUTER NETWORK
Paper: BCA—354

Time: Three Hours]

[Maximum Marks: 90

Note: Attempt five questions. Select one from each unit.

Q. No. I is compulsory:

Compulsory Question

1. (a) Discuss Analog and Digital signal.
(b) Differentiate between LAN and WAN.
(c) What is a I-IUB?
(d) Differentiate between Router and Repeater.
(e) Define Band-Width, Band—Rate.
(f) Write full form of ATM, FDDI, SONET.

3x6=18

UNIT—I

2. Explain layers of OSI Reference Model.

18

3. (a) Write a note on LAN Topologies.
(b) Write 'notes on
Client Serve Model
X.25
Frame Relay.

18

UNIT—II

4. Explain concept of TDM. Also discuss T and E carriers.

18

5. (a) Differentiate between Circuit and Packet switching.
(b) Write a note on Guided Media.

18

UNIT—III

6. (a) Discuss concept of Frame control.

- (b) Explain any two error detection and correction Mechanism in Data Link Layer.

18

7. (a) Explain Go-back-N and Selective Repeat Protocols.
(b) Write a note on Ethernet and its types.

18

UNIT—IV

8. What is Routing ? Discuss Distance Vector and Link—State Routing.

18

9. Write notes on

- (a) Encryption Methods.
(b) Congestion Control Algorithms.

18