Time: 3 Hours   **Max.Marks:75**

Section - A

Answer all the questions: **15X 1= 15**

1. What are the components of data communication system?

2. What are the categories of Transmission media?

3. What is meant b networking?

4. What is protocol?

5. Expand TCP/IP?

6. What is Ethernet?

7. Name the two technologies used by circuit switching?

8. What are the X-25 layers?

9. Expand ICMP?

10. What is the need for flow control?

11. Why congestion occur in a network?

12. Give the abbreviation for ODP?

13. Expand SMTP?

14. What is the use of Rlogin?

15. TELNET Stands for ---------------------

Section – B

Answers any Five questions: **5 X 6 = 30**

16. a. Discuss about data communication networking?
    (Or)
    b. Write short notes on guided media?

17. a. Explain OSI layer?
    (Or)
    b. What are the various types of Topologies? Explain?

18. a. Give short notes on X-25 layer?
    (Or)
    b. Describe unreliable connectionless delivery?

19. a. Explain about congestion control?
    (Or)
    b. Discuss user datagram protocol?

20. a. Explain Rlogin?
    (Or)
    b. Explain SNMP?

Section – C

Answer any Two Questions: **2 X 15 = 30**

21. Explain in detail about data transmission concept and terminology?

22. Give short notes on:
    (i)   Token Ring
    (ii)   Ethernet
    (iii)   Bridges

23. Explain about switching concept in detail?

24. Explain transport layer?

25. Explain about upper OSI layers in detail?