

NOVEMBER 2022

51335/SZ24A/
SE25A

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Define the term "Network".
2. What do you mean by OSI?
3. What do you mean by error control?
4. What are the responsibilities of data link layer?
5. Write down the functions of network layer.
6. What is stop-and wait automatic repeat request?
7. Define the term "Protocol"
8. What do you mean by congestion control?
9. Write the keys for understanding the distance vector routing?
10. What is meant by congestion?
11. Define: "Internet".
12. What is multiplexing?

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PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. How to guided media differ from unguided media?
14. What are the advantages and disadvantages of optical fiber?
15. What are the four common methods of error detection? Explain.
16. Distinguish between the circuit switching and packet switching.
17. Summarize the functions of Address Resolution Protocol.
18. Differentiate between the connection-oriented and connectionless services.
19. Explain the techniques used in cryptographic algorithm.
22. Discuss the design and implementation of Stop-and-Wait Protocol.
23. Illustrate the link state routing protocol with diagram.
24. Outline the Remote Procedure Call with neat diagram.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

20. Compare the functions of LAN, WAN, and MAN.
21. Draw and explain the structure of the telephone system.