NOVEMBER 2024

51335/SZ24A/ SE25A/SU26A/ TC25B/TD25B

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Define Ethernet.
2. List out the advantages of Wireless LAN.
3. What is ATM?
4. What are the benefits of radio transmission?
5. What do you mean by clock recovery?
6. Write the use of modem.
7. What is stop-and-wait protocol?
8. What is slotted ALOHA?
9. Give some examples of internet control protocols.
10. What is Network Address Translation?
11. List the primitives for a simple transport service.
12. Define Transposition cipher. Give an example.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Outline the layers of TCP/IP protocol suite.

14. Compare connection-oriented versus connectionless service.

15. Describe the function of Communication satellites.

16. List and explain the design issues of data link layer.

17. Write note on sliding window protocol.

18. Categorize the classes of IP address.

19. Show and explain the model of cryptography.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Elaborate on the various guided transmission media in detail.

21. Illustrate the procedure for error detection and correction with examples.

22. Explain the architecture of Bluetooth with a neat sketch. Highlight its applications.

23. Discuss the approaches used for congestion control.

24. (a) Show and explain the TCP header format. (5)

(b) List and explain socket primitives for TCP. (5)

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