APRIL 2023

51335/SZ24A/ SE25A/SU26A

Time : Three hours | Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions

1. Define: "Internet".
2. What are the functions of ATM?
3. Define the term "MAN".
4. What do you mean by radio transmission?
5. Write a note on flow control.
6. What is circuit switching?
7. Write down the channel allocation problem.
8. Mention the functions of medium access layer.
9. Give the purpose of broadcast routing.
10. What is traffic-aware routing?
11. What is the use of Berkeley sockets?
12. List out the two fundamental cryptographic principles.

II BCA → Computer network.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions

13. Elaborate the need of Ethernet and wireless LANs.

14. What are the service primitives of Network software? Explain.

15. Describe the functions of medium earth orbit satellites.

16. Explain the structure of the telephone system with diagram.

17. Write down the simplex stop-and-wait protocol for a noisy channel.

18. What are the approaches to congestion control? Explain.

19. Summarize the transport services provided to the upper layers.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

20. Draw and explain the architecture of TCP/IP reference models.

21. Illustrate the implementation of error-correcting codes

22. Discuss the one-bit sliding window protocol.

23. Outline the distance vector routing with neat diagram.

24. Elaborate the connection release of transport protocols.

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