Time : Three hours   Maximum : 80 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1.   List out the two types of transmission technology.

2.   Mention the layer names of TCP/IP.

3.   Which mode of operations is known as bent pipe?

4.   What is called Modem?

5.   What is meant by stop-and-wait protocol?

6.   Write any one key assumption for dynamic channel allocation.

7.   What are the main features of PPP?

8.   What is meant by routing algorithm?

9.   Define the term IP protocol.

10. What is meant by transport entity?

11. Expand TSAP and NSAP.

12. What is called cryptography?

SECTION B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Write short notes on LAN.

14. Describe about theoretical basis for data communication.

15. Discuss about electromagnetic spectrum.

16. Explain about error-correcting codes.

17. Give a brief account on sliding window protocols

18. Describe about congestion control algorithms.

19. Discuss about transport services.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Elaborate the concept of OSI reference model.

21. Illustrate about communication satellites.

22. Explain about channel allocation problem.

23. Give a detailed note on routing algorithms.

24. List out the elements of transport protocol and explain.

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