MAY 2024

P/ID 17614/PCA4L/ PCAED/PIT3F

Time : Three hours Maximum : 80 marks

PART A — ($10 \times 2 = 20$ marks)

Answer any TEN questions.

1. What is ARPANET?

2. Which OSI layers are network support layers?

3. What are called communication satellites?

4. What do you mean by switching?

5. What is the mechanism of sliding window flow control?

6. What is channel allocation problem?

7. What is SONET?

8. Write down the format of IP Address.

9. What is ICP?

10. Write any two transport layer protocols.

11. Write the way of establishing a TCP connection?

12. What are the three aspects of information security?

PART B — (5 × 6 = 30 marks)

Answer any FIVE questions.

13. Write short notes on Network hardware.

14. How do guided media differs from unguided media?

15. Define LEO. Mention its advantages.

16. Explain circuit switching.

17. Explain error detection criteria.

18. Describe congestion control algorithm.

19. Explain public key crypto system.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain OSI reference model and describe their functions.

21. Explain the design issues of datalink layer, with necessary protocols.

22. Describe Multiple Access protocols.

23. Discuss various congestion control algorithms.

24. Draw a neat diagram of a transport Layer segment and explain.
