

MAY 2021

**P/ID 17614/PCA4L/
PCAED**

Time : Three hours

Maximum : 80 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. List the names of layers of the OSI reference model.
2. Define: Guided Transmission Media.
3. What is called digital modulation?
4. Write the purpose of Data Link Layer.
5. What are Error-correcting Codes?
6. Define the term SONET.
7. What is called network congestion?
8. Define the term Routing.
9. What are the various categories of IP addresses?
10. List out the primitives of a transport service.

11. Which layer is called as end to end flow control layer?

12. Define: Cryptography.

PART B — ($5 \times 6 = 30$ marks)

Answer any FIVE questions.

13. Write short notes on Network hardware.

14. Explain TCP/IP reference model.

15. Explain space division multiplexing technique.

16. Discuss the design issues of data link layer.

17. Explain one bit sliding window protocol.

18. Explain the internet control protocol.

19. Describe the elements of transport protocol.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

20. Explain the following:

(a) Wireless LAN

(b) Sensor networks

21. Explain the methods for error detection and correction.

22. Discuss on Multiple access protocols.
 23. Describe any two routing algorithms in Network layer.
 24. Explain transport layer connection establishment and termination.
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