

**DECEMBER 2021**

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

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Time : Three hours

Maximum : 80 marks

PART A — ( $10 \times 2 = 20$  marks)

Answer any TEN questions.

1. Write the types of transmission technology.
2. What do you mean by protocol?
3. What are the categories of guided media?
4. List out the types of switching techniques.
5. What is meant by multiple access protocols?
6. What are carrier-sense protocols?
7. Define the term Router.
8. What do you mean by congestion?
9. What is a port address?
10. Expand TCP and UDP.
11. Write a note on error control mechanism.
12. List out the security techniques in transport layer.

PART B — ( $5 \times 6 = 30$  marks)

Answer any FIVE questions.

13. Discuss on wireless LAN.
14. Explain any two multiplexing schemes.
15. Discuss the design issues of Data link layer.
16. Write short notes on multiple access protocols.
17. Explain congestion control algorithm.
18. Explain the various classes of IP address.
19. Describe the mechanism of TCP connection establishment.

PART C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

20. Explain OSI reference model.
  21. Explain Error detecting codes with examples.
  22. Explain channel allocation problem in medium access control sublayer.
  23. Explain any three internet control protocols.
  24. What are the two types of cryptographic principles? Explain.
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