

1097**Code : 15CS34T**Register
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III Semester Diploma Examination, April/May-2019**COMPUTER NETWORKS****Time : 3 Hours]****[Max. Marks : 100**

- Instructions :** (i) Answer any **six** full questions from PART – A. Each carries **5** marks.
(ii) Answer any **seven** full questions from PART – B. Each carries **10** marks.

PART – A**5 × 6 = 30****5**

1. Define the following terms :

- (a) Data communication
- (b) Phase
- (c) Wave length
- (d) Band width
- (e) Through put



2. List the different network topologies. Explain with a diagram Ring topology.

5

3. Explain the terms :

5

- (a) Error detection
- (b) Error correction
- (c) Redundancy
- (d) Forward error correction
- (e) Re-transmission

4. Describe the role of NIC.

5

5. Explain the ARCNet data frame format.

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6. Explain the limitations of IP address classes.

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7. Explain the advantages and disadvantages of leased lines.

5

8. Discuss frame relay protocols.

5

9. Explain briefly Routing protocols.

5

PART – B**10 × 7 = 70**

10. Explain briefly the component of data communication, with a diagram.

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11. Discuss OSI reference model with a neat diagram.

10

12. With a diagram and an example. Explain the structure of Encoder and Decoder in error correction.

10

13. Discuss controlled Access methods.

10

14. Explain with a diagram Hubs repeaters.

10

15. Describe the Token ring Data frame format.

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16. Compare SMTP with POP.

10

17. List and explain different IP address classes.

10

18. Describe VSAT network architecture and access technologies.

10

19. Discuss PPP and X-25 protocols.

10