

1285

Code : 15EC44T

Register
Number

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IV Semester Diploma Examination, April/May-2018

DATA COMMUNICATION & COMPUTER NETWORKS

Time : 3 Hours]

[Max. Marks : 100

- Note :** (i) Answer any six full questions from Part – A. ($5 \times 6 = 30$ Marks)
(ii) Answer any seven full questions from Part – B. ($7 \times 10 = 70$ Marks)

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PART – A

(Answer any six questions from this part)



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|---|---|
| 1. Differentiate between Ring & Bus topology. | |
| 2. Compare LAN, WAN and MAN. | 5 |
| 3. What is a frame ? Write a short note on error control & flow control. | 5 |
| 4. Explain the concept of encapsulation and decapsulation. | 5 |
| 5. Explain the properties of Ethernet. | 5 |
| 6. Explain the features of TCP. | 5 |
| 7. Explain the concepts of ports and sockets. | 5 |
| 8. Explain the working of Bridges and repeaters. | 5 |
| 9. Explain how does a router facilitate interconnection between two or more networks. | 5 |



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PART – B**(Answer any seven questions from this part)**

10. Explain different network topologies with neat diagram. 10
11. With a neat diagram explain functions of different layers of OSI model. 10
12. Describe the working of CSMA / CD. 10
13. Explain the working of token ring network and also explain how it is different from Ethernet. 10
14. (a) Explain the basic concept of cellular telephone. 5
(b) Explain the dotted decimal notation of Ip address. 5
15. Explain the need of
(a) ARP
(b) RARP
(c) ICMP 10
16. Write short notes on basics of
(a) IPv4
(b) IPv6 10
17. Briefly explain the working of a frame relay. 10
18. Explain the basic of FTP and FTP connections. 10
19. (a) Explain about bridge & its functions. 5
(b) Explain the working of a gateway. 5



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