

087

Code : 15EC44T

Register
Number

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IV Semester Diploma Examination, Oct./Nov.-2019

DATA COMMUNICATION AND COMPUTER NETWORKS

Time : 3 Hours]

[Max. Marks : 100

- Instructions :** (i) Answer any six questions from Part – A
(ii) Answer any seven full questions from Part – B.

PART – A

1. Write a note on different Network topology. 5
2. Define Switching, Node and Branch. 5
3. Define frame. Write a note on error control and flow control mechanism. 5
4. Mention the functions of physical layer of OSI model. 5
5. Explain the basic concept of WIMAX. 5
6. Explain the need of ICMP. 5
7. Discuss the FTP connection mechanism between client and server. 5
8. Explain firewalls with logic and rules. 5
9. Explain the ways of accessing internet. 5

PART - B



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| 10. Compare LAN, WAN and MAN. | 10 |
| 11. (a) Explain MAC addressing mechanism. | 5 |
| (b) Write a note on FDDI. | 5 |
| 12. Explain the architecture of Bluetooth. | 10 |
| 13. (a) Explain the token passing. | 5 |
| (b) Discuss the properties of Ethernet network. | 5 |
| 14. (a) List the features of LAN. | 5 |
| (b) Write note on Address Mapping. | 5 |
| 15. Explain the various field UDP/IP format. | 10 |
| 16. (a) Compare TCP and UDP. | 5 |
| (b) Explain the format of IPv4 and IPv6. | 5 |
| 17. Explain the working of DNS server. | 10 |
| 18. (a) Differentiate IMAP with POP. | 5 |
| (b) Explain the need of frame relay network. | 5 |
| 19. Explain the need of internetworking and its operation. | 10 |
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