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IV Semester Diploma Examination, April/May-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. Mention the basic network topologies and explain any one type. 5
2. Differentiate between LAN, MAN & WAN. 5
3. Explain the concept of encapsulation and decapsulation. 5
4. Describe self healing mechanism of FDDI. 5
5. Write a note on WIMAX. 5
6. Described the three parts of IP address. 5
7. Differentiate between IPv4 and IPv6. 5
8. Explain the working of DNS server. 5
9. Explain working of router. 5

PART – B

10. Explain the different switching techniques. 10
11. Explain different layers of OSI model. 10
12. (a) Define frame and write a note on error control and flow control. 5
(b) Mention the properties of Ethernet network. 5
13. (a) Describe the working of CSMA/CD with flowchart. 5
(b) List the advantages of virtual LAN. 5
14. (a) Explain the working mechanism of token ring network. 5
(b) Explain bluetooth architecture. 5
15. (a) Explain the different classes of IP address. 5
(b) Explain ARP and RARP. 5
16. (a) List the features of TCP. 5
(b) Describe the fields of UDP datagram format. 5
17. (a) Explain the protocols of e-mail. 5
(b) Explain working of frame relay. 5
18. (a) Name ATM layers and their functions. 5
(b) Compare SLIP and PPP. 5
19. (a) Mention the different types of modems. 5
(b) Write a note on firewall. 5
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