7688

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER / NOVEMBER—2023

DCAI – FIFTH SEMESTER EXAMINATION

COMPUTER NETWORKS

Time : 3 Hours]   [*Total Marks* : 80

PART—A   3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Write the features of LAN Network.

2. List the layers of TCP/IP reference model.

3. What is Coaxial cable?

4. Define Router.

5. What is need for IPv6?

6. List the IP address classes.

7. Define a Protocol.

8. What is Telnet?

9. Write the disk management tasks.

10. List any three responsibilities of network administrator.

PART—B

8×5=40

Instructions : (1) Answer **all** questions.

(2) Each question carries **eight** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. *(a)* Write in detail about the importance of bluetooth.

(OR)

(b) Explain about the OSI reference model with a neat sketch.

12. *(a)* Explain about wireless network adapter.

(OR)

(b) Explain the merits and demerits of star and mesh topologies.

13. *(a)* Explain about TCP/IP addressing scheme.

(OR)

(b) Explain in detail about the classful addressing in Internet protocol Version-4 (IPv4)

14. *(a)* Explain about File Transfer protocol.

(OR)

(b) Explain about DHCP protocol.

15. *(a)* Explain in detail about user and group managements.

(OR)

(b) Describe NTFS and share permissions.

PART—C

10×1=10

Instructions : (1) Answer the following question.

(2) The question carries **ten** marks.

(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. What is DNS? What are the services provided by DNS? Explain how it works?

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