7438

BOARD DIPLOMA EXAMINATION, (C-20)

OCTOBER/NOVEMBER—2024

DCME – FOURTH 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. List all the layers in OSI reference model.

2. Write the importance of Wi-Fi.

3. What is the purpose of routers?

4. What are the advantages of Mesh topology?

5. List the advantages of subnetting.

6. Write about IPv4 addressing.

7. What is the need of SMTP?

8. Write about FTP.

9. What is the need to manage a port?

10. What are the basic functions performed by the disk management tools?

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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)* Explain various network communication standards.

(OR)

(b) Classify LAN, MAN and WAN according to their features.

12. *(a)* Explain different functions of the following LAN tools.

(i) Anti-Magnetic Gloves

(ii) Cable Tester

(iii) Cutter

(iv) Punch down tool

(OR)

(b) Explain the following LAN devices :

(i) Repeaters

(ii) Modem

(iii) Network Interface Card

13. *(a)* Explain the following IP address classes :

(i) Class C network

(ii) Class D network

(iii) Class E network

(OR)

(b) Explain the features of IPv6.

14. *(a)* Explain about Remote Monitoring (RMON).

<div align="center">(OR)</div>

(b) Explain the following protocols :

   (i)   ARP

  (ii)   RARP

 (iii)   SNMP

15. *(a)* Explain user and group managements.

<div align="center">(OR)</div>

(b) Explain the installation, managing and configuration of printer.

<div align="center">

PART—C   10×1=10

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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. A file is created by VENU. VENU belongs to a certain group. All the files which are created by VENU are used by all the members of this group. VENU wants to restrict the file access to some members of this group. How can he do this? Justify your answer.

<div align="center">★★★</div>