



C14-CM-406/C14-IT-406

4454

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

DCME—FOURTH SEMESTER EXAMINATION

COMPUTER NETWORKS

Time : 3 hours ]

[ Total Marks : 80

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**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. Define computer networks.
2. What is RING topology?
3. What is NIC?
4. List connectors used in fiber optic cables.
5. Write a short note on token bus protocol.
6. Write a short note on network addressing.
7. List WAN devices.
8. What is X.25?
9. List the components in ISO network management model.
10. What is the importance of network security in computer networks?

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**PART—B**

10×5=50

- Instructions** : (1) Answer *any five* questions.  
(2) Each question carries **ten** marks.  
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Explain how two computers are connected using DCC. 5  
(b) Distinguish between TCP/IP and OSI reference models. 5
12. Explain token ring protocol. 10
13. (a) Explain FDDI protocol. 5  
(b) Explain NETBEUI protocol. 5
14. Explain CIDR. 10
15. Explain in detail about IPv6. 10
16. Write short notes on (a) bridges, (b) routers, and (c) gateways. 10
17. (a) Explain VSAT. 5  
(b) Explain frame relay protocol. 5
18. Explain SNMP protocol. 10

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