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C14-CM-406/

C14-IT-406

# 4454

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL—2018**  
**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 the hardware and software components of a network.
2. What are the advantages of bus topology?
3. Write short notes on Repeaters.
4. List different connectors used in a LAN.
5. Write the features of IPV6.
6. Write about NETBEUI addressing.
7. Write brief notes on routers.
8. Write short notes on PPP.
9. What is network management?
10. Write short notes on network security.

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

- 11.** Explain the OSI reference model with a neat diagram in detail.
- 12.** Explain TCP/IP protocols in detail.
- 13.** (a) Describe IEEE standard 802.4 Token bus.  
(b) Describe IEEE standard 802.5 Token ring .
- 14.** Explain TCP/IP addressing scheme concepts and subnetting.
- 15.** (a) Explain in detail about IPX/SPX addressing.  
(b) Explain in detail about VLSM.
- 16.** Explain ATM and LANE protocols in detail.
- 17.** Explain the pots and leased line connectivity of WAN.
- 18.** Explain SNMP in detail.

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