



C14-EC-506

4635

BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
DCME—FIFTH SEMESTER EXAMINATION

DATA COMMUNICATIONS AND 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. Define computer network and state its use.
2. Define bandwidth and throughput of a physical medium.
3. State the need for protocols in computer networks.
4. What is meant by CSMA?
5. Define Internet and Intranet.
6. Distinguish between virtual circuit and datagram.
7. State the need for frame relay WAN protocol.
8. Write a short note on WWW.

* 9. Write the role of DNS server.

10. State the use of hyperlinks.

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. Explain circuit switching and packet switching.

12. Explain point-to-point protocol.

13. (a) Explain the topology of wireless LAN. 5

(b) Explain bluetooth technology. 5

14. Explain the internal architecture of ISP.

15. Write packet transfer mechanism using routers and IP address.

16. Explain different layers of TCP/IP.

* 17. Explain ATM WAN protocol.

18. Describe the Web browser architecture.
