



C09-EC-606 A

3762

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

DECE—SIXTH SEMESTER EXAMINATION

DATA COMMUNICATION 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) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Distinguish between Analogue transmission and Digital transmission.
2. Define baud rate, half-duplex and full-duplex communication.
3. What is meant by BUS topology in computer networks?
4. List out the features of circuit switching.
5. What is the function of a router?
6. Define Intranet.
7. What is meant by digital subscriber line?
8. List out the features of ISDN.

* 9. How is a hyperlink established?

10. Mention the features of a Web server.

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) Compare the characteristics of transmission media. 5

(b) Explain infrared wave transmission. 5

12. Explain serial transmission and parallel transmission. 5+5

13. Describe the star and ring topologies. 5+5

14. Explain the function of each OSI layer with a neat sketch. 10

15. Explain the IP addressing concepts in detail. 10

16. Describe high-level architecture of ISP. 10

17. (a) Explain remote login. 6

(b) What is the role of DNS server? 4

* 18. (a) Explain proxy server. 6

(b) Explain the working of a Web browser. 4
