



C09-EC-606 A

3762

**BOARD DIPLOMA EXAMINATION, (C-09)
OCT/NOV—2015
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) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define channel capacity.
2. Define data communication.
3. Write the advantages and disadvantages of packet switching.
4. Write short note on adaptive switch mechanism.
5. Write any six applications of WAP.
6. List the different layers of TCP/IP protocol stack.
7. State the important functions of repeater.
8. State the functions of ISP.

- * 9. Write short note on remote login.
10. What is the purpose of e-mail? List any three e-mail service providers.

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. Compare the characteristics of different transmission media.
12. Explain about data and signals (digital data digital signals, digital data analog signals, analog data digital signals, analog data analog signals).
13. Explain the following network topologies and write the advantages and disadvantages of each topology :
- (a) Star
- (b) Ring
14. Draw the OSI 7-layer model and write the functions of each OSI layer.
15. Explain the IP addressing concepts.
16. Explain WAN architecture.
- * 17. Explain file transfer operation (FTP) in Web applications.
18. Explain the working of Web browser.
