



C09-EC-606 A

3762

**BOARD DIPLOMA EXAMINATION, (C-09)
APRIL/MAY—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 data communications. Write the need for data communication networking.
2. Define channel capacity.
3. Define computer network and state its use.
4. Write the applications of WAP.
5. Draw the OSI 7 layer model.
6. Define Intranet and Internet.
7. Write the features of TCP.
8. What is ARPANET and WWW?
9. Write the role of DNS server.
10. List HTTP commands.

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[*Contd...*

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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.** Explain the cross-section and applications of twisted pair cable, coaxial cable and optical fibre with a neat diagram.
- 12.** Write short notes on :
- (a) Digital data digital signal
 - (b) Digital data analog signal
 - (c) Analog data digital signal
 - (d) Analog data analog signal
- 13.** Explain the ethernet frame format with neat sketch.
- 14.** Describe different network topologies (bus, star, ring) with diagrams.
- 15.** Explain the internal architecture of ISP with a neat sketch.
- * **16.** (a) Explain the operation of repeaters and bridge. 3+3
(b) Explain the role of gateway. 4
- 17.** Explain the file File Transfer Protocol (FTP) in Web applications with neat sketch.
- 18.** Describe the Web browser architecture with neat sketch.
