

C14-EC-506

4635

BOARD DIPLOMA EXAMINATION, (C-14) OCT/NOV-2017 DECE-FIFTH SEMESTER EXAMINATION

DATA COMMUNICATION AND COMPUTER NETWORKS

Time: 3 hours [Total Marks: 80

PART—A

 $3 \times 10 = 30$

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. State the need for data communication and networking.
- 2. Define simplex, half duplex, full duplex communications.
- **3.** Define local area network and state its use.
- **4.** List any six applications of WAP.
- **5.** Define the terms internet and intranet.
- **6.** State the function of cut through switch mechanism.
- 7. Write a short note on ARPANET.
- 8. List different layers of TCP/IP.

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- 9. List any six HTTP commands.
- **10.** State the purpose of proxy server.

PART—B

 $10 \times 5 = 50$

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.** Draw the OSI 7 layer architecture and explain function of each layer.
- **12.** Explain the following network topologies :

 $5 \times 2 = 10$

- (a) BUS
- (b) Star
- **13.** Explain ethernet frame format IEEE 802.3.
- **14.** Write packet transfer mechanism using routers and IP address.
- 15. Explain internal architecture of ISP.
- **16.** Describe the working of X.25 WAN protocol.
- **17.** Explain ATM WAN protocol.
- 18. Explain how e-mail is transferred.

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