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BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2017

DECE—FIFTH SEMESTER EXAMINATION

DATA COMMUNICATION AND COMPUTER NETWORKING

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 simplex, half-duplex and full-duplex communication.
- 3. Compare the performances of bus and star network topologies.
- **4.** State the need for protocols in computer networks.
- **5.** Define internet protocol.
- **6.** Distinguish between connection-oriented (virtual circuit) and connectionless (diagram) services.
- 7. State the need for FRAME relay WAN protocol.

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- 8. State the use of gateways.
- 9. List the differences between SMTP and POP server.
- 10. State the purpose of proxy 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.** Explain the circuit switching and packet switching.
- **12.** Explain the working of token ring network.
- **13.** Explain the topology of wireless LAN and explain its frame format (IEEE 802.11).
- **14.** Explain the packet transfer mechanism using routers and IP address.
- **15.** Explain the internal architecture of ISP.
- **16.** Describe the working of X.25 WAN protocol.
- 17. Explain different layers of TCP/IP.
- **18.** Explain the working of Web server.

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