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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL-2019
DECE - FIFTH SEMESTER EXAMINATION

DATA COMMUNICATION & COMPUTER NETWORKING

Time: 3 Hours]   [Max. Marks : 80

PART - A

3x10=30M

Instructions: 1) Answer **all** questions. Each question carries **three** marks.
2) 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)   What is simplex, half duplex and full duplex communication?

3)   State the need for protocols in computer networks.

4)   Define local area network and state its use.

5)   State the need for IPv6.

6)   Define the terms Internet and Intranet.

7)   Write the functions of port and sockets.

8)   List the three commonly used WAN technologies.

9)   What is remote login?

10) State the use of hyperlinks.

PART- B

Instructions: 1) Answer any **five** questions.

2) Each question carries **ten** marks.

3) The answer should be comprehensive and the criterion for valuation is the Content but not the length of the answer.

11) Explain circuit switching and packet switching.

12) Explain the following network topologies.

   a) Bus   b) Star.

13) Explain Ethernet frame format (IEEE 802.3)

14) Explain packet transfer mechanism using routers and IP address.

15) Explain the internal architecture of ISP.

16) Explain different layers of TCP/IP

17) Describe the ARPANET and WWW.

18) Explain how email is transferred on internet in detail.

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