



**5853**

**BOARD DIPLOMA EXAMINATION, (C-16S)**

NOVEMBER - 2019

**DECE - V SEMESTER EXAMINATION**

**DATA COMMUNICATION & 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) Answer should be brief and straight to the point.

- 1 Define Computer Network and state its use.
- 2 List the OSI Layers.
- 3 Differentiate between Repeater and Switch.
- 4 State the need for flow control and Error Control protocols.
- 5 Distinguish between virtual circuits and Datagram services.
- 6 Define the terms Internet and Intranet.
- 7 Distinguish between Ports and Sockets.
- 8 What is the role of Gateway?
- 9 What is the need for network security.
- 10 Define message authentication and entity authentication.

**PART - B**

**10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
  - (2) Each question carries **TEN** marks.
  - (3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

- 11 Explain Circuit and Packet Switching.
- 12 (A) Define Simplex, Half duplex with examples. **5**  
(B) Write about the use of Routers in networking. **5**
- 13 Explain the Bluetooth technology in detail.
- 14 Describe the point to point Protocol.
- 15 Discuss in detail classful addressing and classless addressing in IPV4. <http://www.sbtetonline.com>
- 16 Describe the working of X.25 WAN Protocol.
- 17 (A) Write a Short note on WWW. **5**  
(B) List any five http commands. **5**
- 18 Explain the web server.

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