



C09-EC-606 A

**3762**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**OCT/NOV—2016**

**DECE—SIXTH SEMESTER EXAMINATION**

**DATA COMMUNICATION AND COMPUTER NETWORKS**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**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 channel capacity.
2. Write a short note on infrared transmission.
3. Categorize the computer networks based on range.
4. What is network topology? List different network topologies.
5. List the functions of network layer.
6. State the important functions of repeater.
7. Define port and sockets.
8. Define intranet.
9. What is the purpose of e-mail? List any three e-mail service providers.
10. What is HTTP? List any four HTTP commands.

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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 following with cross-sectional diagram and list applications of each :
- (a) Optical fiber cable
  - (b) Coaxial cable
- 12.** (a) Distinguish between analog transmission and digital transmission.  
(b) Explain serial and parallel communications.
- 13.** Explain the working of token-ring network.
- 14.** Explain the Ethernet frame format (802.3).
- 15.** Write briefly about DSL and cable modem.
- 16.** Explain the internal architecture of ISP.
- 17.** Explain the working of Web browser.
- 18.** (a) Write the purpose of proxy server.  
(b) Write a short note on hyperlinks.

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