



C09-EC-606 A

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BOARD DIPLOMA EXAMINATION, (C-09)  
MARCH/APRIL—2018  
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 simplex, half-duplex and full-duplex communications.
2. Define channel capacity.
3. Write any three applications of WAP.
4. Define protocol.
5. Define Bluetooth technology.
6. What is the role of repeater in computer networks?
7. Define Internet.

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WWW.MANARESULTS.CO.IN

8. Write briefly about WWW.
9. List any three e-mail service providers.
10. Write the role of DNS 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. (a) Explain the need of data communication networking. 7  
(b) Define baud rate. 3
12. Explain the cross-section of coaxial cable and optical cable.
13. Draw OSI 7-layer model and explain the function of each OSI layer.
14. Describe CSMA.
15. Explain the internal architecture of ISP.
16. Draw TCP/IP architecture. Describe about the functions of different layers of TCP/IP.
17. Explain (a) concept of remote login and (b) hyperlinks.
18. Explain the working of Web server.

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