



C14-EC-506

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCT/NOV—2018
DECE—FIFTH SEMESTER EXAMINATION**

DATA COMMUNICATION AND COMPUTER NETWORKS

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. State the need for data communication and networking.
2. Define bandwidth and throughput of a physical medium.
3. State the need for protocols in computer networks.
4. List any six applications of WAP.
5. Distinguish between connection-oriented and connectionless services.
6. Define the terms Internet and Intranet.
7. Write a short note on WWW.

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WWW.MANARESULTS.CO.IN

8. What is the ^{*} use of gateways in computer networks?
9. List any six HTTP commands.
10. What is 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. Draw the OSI 7 layer architecture and explain the function of each layer.
12. Explain the working of token ring network with suitable diagram.
13. Explain the point-to-point protocol (PPP).
14. Explain, in detail, about packet transfer mechanism using routers and IP address.
15. Explain the internal architecture of ISP.
16. Explain different layers of TCP/IP.
17. Explain ATM WAN protocol.
18. Describe the Web browser architecture.

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