



C14-EC-506

4635

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

DECE—FIFTH SEMESTER EXAMINATION

DATA COMMUNICATION AND 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) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the need for data communication networking.
2. List the different types of physical transmission media.
3. State the need for protocols in computer networks.
4. Distinguish between switch and bridge used in computer networks.
5. State the use of routers in computer networking.
6. State the function of store-and-forward switch mechanism.
7. List the three commonly used WAN technologies.
8. State the use of gateways.
9. State the use of hyperlinks.
10. What is remote login?

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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. Draw the ISO : OSI 7 layer architecture and explain the function of any three layers.

12. Explain the Ethernet frame format (IEEE802.3).

13. (a) Explain the point-in-point protocol (PPP). 5

(b) Explain the Bluetooth technology. 5

14. Explain the internal architecture of ISP.

15. Explain the packet transfer mechanism using routers and IP address.

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16. Describe the ARPANET and WWW.

17. Explain the features of TCP.

18. Explain how e-mail is transferred.
