3762

BOARD DIPLOMA EXAMINATION, (C–09)
MARCH/APRIL—2017
DECE—SIXTH 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. Write short notes on light wave transmission.

2. Define baud rate.

3. What is network topology? List different network topologies.

4. State the need of protocols in computer network.

5. Write the applications of WAP.

6. Define intranet.

7. Differentiate between repeater and bridge.

8. State the functions of ISP.

9. What is HTTP? List any four HTTP commands.

10. Write short notes on remote login.

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)* Distinguish between analog and digital transmission.

(b) Explain serial and parallel communications.

12. Explain the following with cross-sectional diagram and list applications of each :

(a) Optical fibre cable

(b) Coaxial cable

13. Draw the OSI 7 layer model and write the functions of physical, data link and network layers.

14. Describe circuit switching and packet switching.

15. Explain the ISDN architecture.

16. Explain the IP addressing concepts.

17. Explain the working of web server.

18. Explain how e-mail is transferred.

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