4031

BOARD DIPLOMA EXAMINATION, (C–14)

APRIL/MAY—2015

DCM—FIRST YEAR EXAMINATION

BASICS OF COMPUTER ENGINEERING

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. Define the terms 'high-level language' and 'low-level language'.

1½+1½

2. List the characteristics of an algorithm.   3

3. Write the differences between ASCII code and EBCDIC code.   3

4. State the need for an Operating System.   3

5. List the components of a Window.   3

6. Write a short note on uninstalling software using control panel.   3

7. What are Internet and Intranet?   3

8. Define Computer Network. Distinguish between LAN and WAN.   3

9. What is Open Source Software? List any four Open Source Softwares.   3

10. Define Computer Worm. List any four Computer Worms.   3

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. List and explain the functions of any four input devices and any four output devices. 10

12. *(a)* Do the following conversions : 3+2

    (i) $(110011\ 10)_2$ $(\underline{\hspace{2cm}})_{10}$

    (ii) $(356\ 12)_8$ $(\underline{\hspace{2cm}})_{16}$

  (b) List and explain briefly the advantages of Database System. 5

13. List and explain at least five external commands in DOS. 10

14. Give the steps to install a printer using Control Panel. 10

15. *(a)* Explain about DNS. 5

  (b) Explain about URL. 5

16. *(a)* Explain about Social Network Sites. 5

  (b) Explain about Internet Security. 5

17. Describe the following Software Development Life Cycle models : 5+5

  (a) Waterfall Model

  (b) Spiral Model

18. *(a)* Compare GSM and CDMA. 5

  (b) Explain about Encryption. 5

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