4031

BOARD DIPLOMA EXAMINATION, (C–14)

MARCH/APRIL—2016

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 *(a)* Hardware and *(b)* Software. 1½×2=3

2. List the steps involved in problem solving. 3

3. Convert the following : 3
$(526)_{10}$ $(?)_8$

4. What is an operating system? 3

5. List any four components of a window. 3

6. Write about drive space. 3

7. Define computer network. 3

8. Define DNS. 3

9. Define data structure. 3

10. Define cloud. 3

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PART—B 10×5=50

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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. Explain all the generations of the computers. 10

12. *(a)* List the steps to convert from decimal to binary with an example. 5

(b) Explain briefly DBMS. 5

13. Explain about any ten internal commands. 10

14. Describe installing new Software and Hardware using control panel. 5+5=10

15. Explain the process of installation of a modem using control panel. 10

16. Explain the process of sending and receiving e-mail. 5+5=10

17. Explain file systems FAT and FAT 32. 5+5=10

18. Differentiate between grid computing and cloud computing. 10

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