4031

**BOARD DIPLOMA EXAMINATION, (C–14)
MARCH/APRIL—2018
DCME–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+1½

2. List the characteristics of algorithm.   3

3. Convert $(11011)_2$ to decimal.   3

4. List any three internal dos commands.   3

5. List the features of Windows desktop.   3

6. Define a file.   3

7. List the type of computer networks.   3

8. Write about IP address.   3

9. Define Client & Server.   1½+1½

10. Define wireless communication.   3

* **Instructions :** (1) Answer *any* **five** questions.
                   (2) Each question carries **ten** marks.
                   (3) Answers should be comprehensive and the criteria
                        for evaluation is the content but not the length of
                        the answer.

11. Draw the block of a digital computer and explain the   10
        function of each block.

12. *(a)* Explain the ASCII coding system.   5
        (b) State the need for software engineering.   5

13. *(a)* Explain the need for an operating system.   5
        (b) Explain any five external commands with suitable
               examples.   5

14. *(a)* Explain the procedure how to install a new software
               using control panel.   5
        (b) Explain the process how to change the system Date 5
               & Time.

15. Explain the procedure how to install a MODEM using
        control panel.   10

16. Explain the role of search engines with suitable
        examples.   10

17. *(a)* Define open source software.   4
        (b) Differentiate between Flat file database and Relational
               Database systems.   6

18. *(a)* Explain cloud components with a suitable diagram. 5
        (b) Explain about encryption.   5

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