6025

BOARD DIPLOMA EXAMINATION, (C–16)

OCT/NOV—2017

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, *(b)* software and *(c)* firmware.

2. Draw a flowchart for finding the biggest of three numbers.

3. Convert the decimal number 337 into binary number.

4. List any six external DOS commands.

5. List any three display properties in Windows operating system.

6. What is disk defragmentation?

7. What is computer network? Write the uses of computer network.

8. What is a web browser? List any four web browsers.

9. Define the terms database and database management system.

10. Define encryption.

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 block diagram of a computer and explain the function of each unit.

12. *(a)* Write the procedure for octal to binary conversion. Convert $(234\ 716)_8$ to binary. 5

(b) Write any five differences between flat file database and relational database. 5

13. List and explain any five internal DOS commands.

14. Write the procedure for installing and uninstalling software, using control panel.

15. Write the procedure for sending and receiving e-mail.

16. Write the procedure for installing modem using control panel.

17. Explain file systems FAT32 and NTFS.

18. *(a)* Define the terms cloud and cloud computing, and explain different types of cloud. 5

(b) Explain GSM and CDMA in brief. 5

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