



C16-CM-105

6025

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—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.

1×3=3

2. List the steps involved in problem solving.

3. Convert the decimal number 201 into hexadecimal number.

4. What is a wildcard in DOS? List two wildcards in DOS.

5. Define (a) file and (b) folder.

1½×2=3

6. What is disk defragmentation?

7. Write any three differences between LAN and WAN.

8. What is search engine? List any four search engines.

9. Define the terms (a) open source software and (b) software engineering.

10. Define virus in computer system. List few examples.

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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.** Explain any three internal DOS commands and any two external 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 system FAT, FAT32 and NTFS.
- 18.** (a) List any five applications of cloud computing. 5
(b) Define the terms GSM, CDMA and Bluetooth. 5
