



C09-CM/IT-105

3025

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

DCME—FIRST YEAR EXAMINATION

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

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. Write the importance of a cache memory.
2. Define each of the following :
 - (a) Terabyte
 - (b) Megabyte
 - (c) Gigabyte
3. What is MS-DOS? List its features.
4. What is the purpose of Telnet?
5. List the steps involved in algorithm development.
6. Write the hierarchy of the relational operators.
7. Write the procedure to declare an array.

- * 8. Write the difference between malloc() and calloc() functions.
- 9. Define union.
- 10. Write the procedure to open a file.

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. (a) Convert the decimal number 43.375 to equivalent binary number.
(b) Convert the decimal number 1024 to equivalent binary number.
- 12. (a) Explain the features of Windows Operating System.
(b) Explain the options available on start menu in Windows.
- 13. Explain the installation procedure of a modem using Control Panel.
- 14. Explain any two loop statements with examples.
- 15. (a) Define an expression. Evaluate the expression $(3 \ 4) / 2 \ 4 / 2$.
(b) Explain macros with example.
- 16. Write a C program to subtract two 3 3 matrices.
- * 17. What are actual parameters and formal parameters? Explain.
- 18. (a) Explain any two string functions with examples.
(b) Explain how to initialize and declare pointer.
