



C09-CM-105/C09-IT-105

3025

BOARD DIPLOMA EXAMINATION, (C-09)

APRIL/MAY—2015

DCME—FIRST YEAR EXAMINATION

COMPUTER FUNDAMENTALS AND PROGRAMMING IN C

Time : 3 hours ]

[ Total Marks : 80

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**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. Convert the binary number 0·111 to equivalent decimal number.

2. Define each of the following :

(a) Terabyte

(b) Megabyte

(c) Gigabyte

3. Write the functions of operating system.

4. Write the advantages of e-mail.

5. List the different steps involved in problem solving.

6. What are the bitwise operators?

7. Explain the procedure to declare a two-dimensional array.

- \* 8. List the uses of pointers.
- 9. Define a structure.
- 10. Write a short note on random access.

**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. Explain the different types of memory.
- 12. Explain the procedure of installing a printer.
- 13. Explain the different connection methods to connect to a Internet.
- 14. (a) Define an expression. Evaluate the expression  $(3 - 4) / 2 - 4 / 2$ .  
(b) Explain macros with example.
- 15. Write a C program to find the real roots of the quadratic equation.
- 16. Write a C program to find the smallest value in an array of 10 numbers.
- 17. (a) Define a function. Write the uses of function.  
(b) Explain return statement with example.
- \* 18. (a) Explain any two string functions with examples.  
(b) Write a C program using pointer to compute the sum of all elements stored in an array.

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