



C14-CM-106/IT-106

4032

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

DCME—FIRST YEAR EXAMINATION

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. Explain the structure of C program. 3
2. List the rules to form identifiers in C with examples. 3
3. What is the purpose of printf()? Write its syntax. 3
4. Write about conditional operator in C with example. 3
5. Write a short note on 'continue' statement. 3
6. If an array is declared as `int a[2][3] { 0, 1, 2, 3, 4, 5 }`; then what are the values of `a[0][2]`, `a[1][1]`, `a[1][2]`? 1+1+1
7. Write the declaration of a user-defined function to return sum of three floating point values. 3

- * 8. List the string input and output functions. 1½+1½
9. Write about malloc() and free() functions. 1½+1½
10. Explain the function fseek() with an example. 3

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) Explain precedence and associativity of various operators in C. 5
 (b) Discuss the scope, visibility and lifetime of variables in functions. 5
12. (a) Write a C function to read a character and check whether it is an alphabet, digit, white space (or) special symbol. 5
 (b) Explain the switch statement with syntax and flowchart. 5
13. (a) Explain about nested loops in C with an example. 5
 (b) Write a C program to generate Fibonacci series of n numbers. 5
14. (a) Define array. List two ways to initialize one-dimensional array. 5
 (b) Write a C program to find the largest of n numbers, stored in an array. 5
15. (a) Define function. Explain about functions with example. 6
 (b) What is recursion? Write a recursive function to find x^y (x power y). 4

- * 16. (a) Explain how to pass pointers as function arguments with an example. 6
(b) Write the difference between call-by value and call-by reference. 4
17. (a) Explain the concept of structures with an example. 5
(b) Define union. How to declare access the members of union with an example? 5
18. (a) Explain file input-output functions with examples. 5
(b) Write a C program to display command line arguments. 5
