

1223**Code : 15CS-31T**Register
Number

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III Semester Diploma Examination, April/May-2017**PROGRAMMING WITH C****Time : 3 Hours]****[Max. Marks : 100**

- Note :** (i) Answer any **six** full questions from Part – A. Each questions carries **5** marks.
(ii) Answer any **seven** full questions from Part – B. Each questions carries **10** marks.

PART – A**6 × 5 = 30****BETA CONSOLE!**

1. Explain Basic Data Types of C language. 5
2. List Rules and Guidelines for naming variables. 5
3. Explain the syntax of for loop with example. 5
4. Differentiate between while and do-while statements. 5
5. Explain the syntax of user defined function with example. 5
6. Differentiate between call-by-value and call-by-reference. 5
7. Define Macro. Explain macro substitution with example. 5
8. Explain general syntax of a structure with example. 5
9. Define Union. Explain the general syntax of union with example. 5

PART - B

 $7 \times 10 = 70$

10. Explain formatted input and output statements used in C with syntax and example. 10
11. Write an Algorithm and C-program to find sum and average of 3 numbers. 10
12. Explain the syntax of if-else statement. Write a C-program to check whether a given number is even or odd using if-else. 10
13. Discuss the following : 10
- (i) Break
 - (ii) Continue
 - (iii) Goto
 - (iv) Label
 - (v) Conditional operator
14. Illustrate the switch statement with syntax and an example. 10
15. Write a C-program to find factorial of a given number using function. 10
16. (a) Explain array, declaration and initialization of one-dimensional array. 5
- (b) List the advantages and disadvantages of an array. 5
17. Write a C-program to Add two matrices using Array. 10
18. Define string. Explain string handling functions of C. 10
19. Write a C-program to create a structure with employee details and display the same. 10

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