

1224**Code : 15CS31T***Register
Number*

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III Semester Diploma Examination, April/May-2018**PROGRAMMING WITH C****Time : 3 Hours]****[Max. Marks : 100**

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

PART – A**BETA CONSOLE!**

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1. What is constant ? Explain different types of C constant.



2. Define algorithm. List out its characteristics.



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3. With general syntax, explain switch statement.

5

4. Write block structure of a function.

5

5. Write short note on C-library functions.

5

6. Write a program to transpose a given matrix.

5

7. Define string. How to declare and initialize string variables with an example ?

5

8. What are structure variables ? Explain how to declare and initialize structure variable.

5

9. Define Union. Explain with an example the general syntax of a union.

5

PART – B

10. With general syntax, explain formatted input-output statements. Give example for each. 10
11. Write an algorithm and flow chart to find sum and average of 3 numbers. 10
12. Explain nested for loop with general syntax and example. 10
13. Write a program to check whether the given number is prime or not. 10
14. Explain the following with syntax : 10
- (a) While loop
 - (b) Do-while loop
15. Write a program to find factorial of a given number using function. 10
16. (a) With an example explain declaration and initialization of one dimensional array. 5
- (b) List any five advantages of an array. 5
17. Write a program to sort N elements of an array. 10
18. Write a program to find area of a circle using macros. 10
19. Write a program to illustrate array of structures. 10

BETA CONSOLE**10**

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