1153

Code : 15CS31T

Register Number | | | | | | | |

III Semester Diploma Examination, Nov./Dec. 2017

PROGRAMMING WITH C

Time : 3 Hours] **[Max. Marks : 100**

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

PART – A

Answer any **six** questions : **5 × 6 = 30**

1. Define constant. List the different types of 'C' constants. **5**

2. Discuss the important features of C language. **5**

3. Define algorithm and explain its characteristics. **5**

4. Explain relational operators with examples. **5**

5. Describe function. List different types of functions. **5**

6. Explain actual and formal parameters. **5**

7. Discuss one dimensional array with example. **5**

8. Explain the following string handling functions : **5**
   (a) strcmp( )
   (b) strlen( )

9. Define structure. Explain with an example, the general syntax of a structure. **5**

PART – B

Answer any **seven** full questions. Each carries **10** marks.

10. Write an algorithm and C program to find the sum and average of three numbers. **10**

11. Explain nested for loop with example. **10**

12. Write a C program to check whether the given number is prime or not. **10**

13. Explain the switch statement with example. **10**

14. Write a program to find factorial of a given number using functions. **10**

15. Write a program to search an element in an array. **10**

16. Illustrate the declaration and initialization of two dimensional array. **10**

17. Write a C program to compare two strings. **10**

18. Discuss array of structure with an example. **10**

19. Write a C program to create structure with five students details and display the same. **10**