

1094**Code : 15CS31T***Register
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III Semester Diploma Examination, April/May-2019**PROGRAMMING WITH C****Time : 3 Hours]****[Max. Marks : 100**

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

PART – A

1. What is a constant ? Explain different types of C constants. 5
2. List and explain different relational operators with examples. 5
3. Write the general syntax of if and if-else statement. 5
4. Define the following : 5
 - (a) Formal parameter
 - (b) Actual parameter
5. What is a function prototype ? Explain with an example. 5
6. Define an array. Explain how to declare and initialise a one-dimensional array. 5
7. Define macro. Explain macro substitution with an example. 5
8. What are structure variables ? Explain how to declare and initialise a structure variable. 5
9. List the differences between Union and Structure. 5

PART – B

10. Explain the basic data types of C language. 10
 11. With general syntax explain formatted input-output statements. Give examples for each. 10
 12. Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 7. 10
 13. Give general syntax of switch statement. Explain with an example. 10
 14. Explain entry controlled and exit controlled loop with an example. 10
 15. Write a programme to find the GCD of two numbers using a function. 10
 16. Write a program to transpose the given matrix. 10
 17. Write a program to sort 'N' elements of an array. 10
 18. Explain : (i) Strcat () (ii) Strcmp () with an example. $5 \times 2 = 10$
 19. Write a program to read student information and display it using a structure. 10
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