1216

Code : 15CS31T

Register Number | | | | | | | | | | |

III Semester Diploma Examination, Nov./Dec.-2018

PROGRAMMING WITH C

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

Instructions : (1) Answer any **six** questions from Part – **A**. Each carries **5** marks.

(2) Answer any **seven** full questions from Part – **B**. Each carries **10** marks.

PART – A

Answer any six questions.

1. List any five guidelines for naming variables.
2. Write a program to swap two variables without using third variable.
3. Write a flowchart to compute addition of given two numbers.
4. What are the advantages of function ?
5. Compare actual parameters and formal parameters.
6. What is an array ? Explain how to declare and initialize a single dimensional array.
7. Compare single dimensional array with multi-dimensional array.
8. Define structure and write the general syntax of the structure declaration.
9. List the differences between union and structure.

PART – B

Answer any **seven** full questions.

10. (a) Evaluate the following expression A = 2 + 3 * 4/6% 2 – 2 . **6**

    (b) Compare While loop and Do While loop. **4**

11. Write a C program to compute all possible roots of a quadratic equation using switch statement.

12. (a) Differentiate between break and continue statements. **4**

    (b) List the basic data types with byte specification. **6**

13. Describe IF-ELSE ladder with suitable example.

14. Write a C program using function to compute factorial of a given number.

15. Write a C program to check whether a given number is prime or not.

16. Write a C program to compute transpose of a given matrix.

17. Explain the following with an example : **2 × 5 = 10**

    (i) getchar()

    (ii) strrev()

    (iii) strcmp()

    (iv) strcut()

    (v) strcpy()

18. Explain the following :

    (a) Pre-processor directive **5**

    (b) Macro substitution **5**

19. Write a 'C' program using structure to read and display the details of the employee.