LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc.DEGREE EXAMINATION –COMPUTER SCIENCE

FIRST SEMESTER – **APRIL 2018**

CS 1505– PROGRAMMING IN C

Date: 26-04-2018   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

PART-A

Answer ALL the question: **10*2=20 Marks**

1. What is an Operator, Operand and Keywords?

2. Enlist the advantage of algorithm.

3. What is the difference between while loop and do...while loop?

4. Give the general form of array declaration.

5. What is the use of strcat() function?

6. What are the uses of Pointers?

7. Define Recursion?

8. What is register variable?

9. Give syntax for structure definition

10. Write the syntax of pointers to structures

PART-B

Answer ALL the questions: **5*8 =40 Marks**

11. a. Explain about different data types in C.

(OR)

   b.(i) Draw a Flow chart to find factorial of a number.   **(4)**

   (ii) Draw a Flow chart to find sum of first 100 natural numbers.**(4)**

12. a. Explain about the various decision making statements in "C" language.

(OR)

   b. What is an array? Explain the characteristics and Classification of an array with examples.

13. a. Explain various String operations. Write a C Program to find length of a String without using   Library functions.

1

(OR)

b. Explain with an example the Array of pointers.

14.a.Discuss about the concept of pass by reference and pass by reference with illustrations.

(OR)

b.Write short notes on types of Recursion. Give example.

15.a.Write a C program to create a mark sheet for students using structure.

(OR)

b.Explain Unions declaration, definition and union member access with suitable example program.

PART-C

Answer any TWO Questions   **2*20=40 Marks**

16. a.Explain the various operators with example.

   b.Write a program to add two matrices.

17. a.Discuss about passing arrays to functions with an example.

   b.Define a storage class. Explain the different types of storage classes.

18. a.Explain function with and without arguments with examples for each.

b. Explain with an example the string functions.

****