# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

## B.Sc. DEGREE EXAMINATION - COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2015

## CS 1505 - PROGRAMMING IN C

Date : 04/11/2015          Dept. No.                    Max. : 100 Marks
Time : 01:00-04:00

## PART – A

**ANSWER ALL THE QUESTIONS:**                                **(10 x 2 = 20 Marks)**

1. Define Algorithm.
2. What are the different data types available in 'C'?
3. What is the difference between while loop and do…while loop?
4. What is the output of the following C program?

   ```
   Main()
   { int a[]={7,5,10,12,6},*p;
   P=&a[0];
   Printf(%d",*(p+2);
   }
   ```

5. What is an Array? Mention its types and write how to declare an array.
6. What is a pointer?
7. What are the advantages of the functions?
8. What is a recursive function?
9. How will you create a structure variable?
10. What is a File?

## PART – B

**ANSWER ALL THE QUESTIONS:**                                **( 5 x 8 = 40 Marks)**

11. a)  Write the algorithm and Draw the flowchart for finding largest of three numbers.

(Or)

   b) Write an algorithm to accept temperature in degree Celsius and convert it in to   Fahrenheit.

12.  a) Explain about various control structures with suitable example.

(Or)

   b) Write a Source Code to Calculate Average Using Arrays.

13. a)  Explain about how pointers are used with arrays.

(Or)

   b) List down the functions that manipulate null-terminated strings.

14. a) Discuss about various categories of functions with suitable example.

(Or)

   b)  Write a function to sort the characters of the string passed to it as argument.

15. a)  List and explain about any five file functions.

(Or)

   b) Explain about Command line arguments?

# PART – C

**ANSWER ANY TWO QUESTIONS:** **(2 x 20 = 40 Marks)**

16.  a) Discuss about the basic structure of a C program.  Give an example.

   b)  List down the common escape sequences with examples in C Programming.

17. a) Discuss about various categories of functions with suitable example.

   b) What are conversion specifiers with examples?

18.  a) Write a program that appends one file at the end of another.

   b) What is the need for operating on bits?  Discuss the bit manipulation facilities in C.

**$$$$$$$**