



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**B.Sc.DEGREE EXAMINATION – COMPUTER SCIENCE**

FIRSTSEMESTER – APRIL 2017

**CS 1505- PROGRAMMING IN C**

Date: 26-04-2017  
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

**SECTION-A**

**ANSWER ALL THE QUESTIONS:**

**(10\*2=20 marks)**

1. What are the functions of input unit and output unit?
2. Draw the flow chart to find the biggest of two numbers.
3. Why is it necessary to give the size of an array in an array declaration?
4. Write the syntax for if-else statement.
5. Write a C Program to length of the string.
6. What is the difference between an array and pointer?
7. How do you use a pointer to a function?
8. Differentiate fixed argument functions and variable argument functions.
9. Define structure declaration.
10. Write the syntax of pointers to structures.

**SECTION-B**

**ANSWER ALL THE QUESTIONS:**

**(5 X 8 = 40 marks)**

11. a. Explain briefly about the formatted and unformatted I/O function in C

**(Or)**

- b. Explain various operators in c with example?

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.

**(Or)**

- b. Write in detail about pointer arithmetic. Support your answer with suitable examples.

- 14.a. What is a function in C. Discuss about the concept of call by value and call by reference with examples?

**(Or)**

- b. What is recursion? Explain recursion with suitable example. What are the advantages of using recursion? Demonstrate with examples.

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

**(Or)**

- b. (i) Write a simple program to read the numbers from the file and display the numbers.

- (ii) Differentiate between random access and sequential access file.

**SECTION-C**

**ANSWER ANY TWO QUESTIONS:**

**(2\*20=40 marks)**

16. a.(i)Write an Algorithm and flowchart to stimulate railway ticket booking process

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

b. (i) write a C program to find the largest and smallest element in an array.

(ii) Write a C program to search a given number in an array of elements.

17.a. Write a C program to generate “Calculator.

b. What is a pointer? Explain about Pointer to Pointers with an example.

18. a. Explain about file manipulations in detail with suitable program.

b. Explain the different looping statement with example?

\*\*\*\*\*