LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.C.A. & B.Sc., DEGREE EXAMINATION – **COMPUTER APPLI & COMPUTER SCIENCE**

FIRST SEMESTER – **APRIL 2023**

CA/CS 1503 – PROGRAMMING IN C

Date: 06-05-2023   Dept. No.   Max. : 100 Marks
Time: 01:00 PM - 04:00 PM

	PART – A	**(10 x 2 = 20 Marks)**

Q. No Answer ALL the Questions

1   What is Identifiers?

2   Define keywords.

3   List out control statements.

4   Differentiate break and continue statements.

5   How do declare a string?

6   What is pointer?

7   Define user defined function.

8   What is recursion?

9   What is structure?

10   Define union.

	PART – B	**(5 x 8 = 40 Marks)**

Answer ALL the Questions

11   (a)   Describe Algorithm development with an example.

(Or)

(b)   Explain any five types of library functions.

12   (a) Illustrate the concept of various control statements.

(Or)

(b) Elaborate nested control structure with an example.

13   (a)   Depict any five standard string functions with examples.

(Or)

(b) Explain the arithmetic operators with examples.

14   (a)   Explain the concept of call by value and call by reference with an example.

(Or)

(b)   Describe the storage classes in c.

15 (a) Explain creating a data file.

(Or)

(b) Write a note on union in C with an example.

PART – C   **(2 x 20 = 40 Marks)**

Answer any TWO Questions

16 (a) Explain the different types of expressions with examples.   (10)

(b) What is an array? Describe the various types of array.   (10)

17 (a) Elaborate the concept of array of pointers.   (10)

(b) Determine the category of functions.   (10)

18 (a) Illustrate pointer to structures.   (10)

(b) Explain operations on files.   (10)