



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – MATHEMATICS

FOURTH SEMESTER – APRIL 2016

MT 4504 - COMPUTER PROGRAMMING IN C

Date: 22-04-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

ANSWER **ALL** THE QUESTIONS:

(10*2=20)

1. Define Program.
2. Mention the White spaces allowed in C program.
3. Write the most commonly used function used to display output and input respectively.
4. State the syntax of “*if* statement”.
5. Which character is used to terminate a string or an array of characters?
6. Give one example to initialize two dimensional arrays.
7. Write the two types of functions used in C.
8. State the syntax of return statement in C.
9. Define a Pointer.
10. Write the two types of special pointer operators in C.

PART – B

ANSWER ANY **FIVE** QUESTIONS:

(5*8=40)

11. Explain the Character set in C language.
12. Discuss the concept of Swapping two numbers/integer with a C program.
13. Brief the following decision making statements with perfect example:
 - (i) If else statement
 - (ii) Nested if else statement
 - (iii) Switch Case statement
14. Write a C program to concatenate two strings by using string functions.
15. Explain the concept of strcpy () with an example and also count the number of characters copied in it.
16. Brief the initialization of a string with an example.
17. Distinguish between structures and unions.
18. Write a program to illustrate the use of pointers in arithmetic operations.

PART – C

ANSWER ANY **TWO** QUESTIONS:

(2*20=40)

19. Brief Tokens in C language.

20. (a) Explain the types of looping in C language.

(b) Write a C program to find the factorial of a number, where the number is entered by user. **(12+8)**

21. (a) Explain the declaration of a multi-dimensional array.

(b) Write a C program to find sum of two matrix of order 2×2 using multidimensional arrays where, elements of matrix need to be entered by the user. **(5+15)**

22. (a) Write a brief note on types of User defined function.

(b) Write a short note on defining and opening a FILE in C. **(15+5)**
