



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**B.Sc. DEGREE EXAMINATION – MATHEMATICS
FOURTH SEMESTER – NOVEMBER 2016
MT 4504 – COMPUTER PROGRAMMING IN C**

Date: 17-11-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

SECTION-A

ANSWER ALL THE QUESTIONS

(10 x 2=20)

1. Define int main () with a simple example.
2. Write a C program that will print your mailing address in the following form:
First line: Name
Second line: Door No, Street
Third line: City, Pin code.
3. What is initialization? Why is it important?
4. What are trigraph characters? How are they useful?
5. Distinguish between getchar function and scanf function.
6. Write down the general format of while statement in C.
7. Define an array.
8. Define a pointer increment and scale factor.
9. Define recursion with an example.
10. Distinguish between global and local variables.

SECTION-B

ANSWER ANY FIVE QUESTIONS

(5 x 8=40)

11. Explain about Arithmetic and Logical operators.
12. Write a C program to calculate the volume of a sphere.
13. Explain the do statement and the for statement.
14. Write a C program to explain the use of getchar function.
15. Write a note on initialization of one dimensional array.
16. Write a C program to compute the factorial of a positive number.
17. Define a pointer and list out any five benefits of pointers.
18. Write a C program to copy the contents of one file into another.

SECTION-C

ANSWER ANY TWO QUESTIONS

(2 x 20=40)

19. a) Write a brief note on if else statement and nesting of if ...else statement and the else if ladder using flow chart.
b) Write a C program to calculate the area of a rectangle. **(15+5)**
20. a) Write a short note on Assignment operators, Increment –Decrement operators, Conditional operators, Bitwise operators and Special operators.
b) Write a C program to generate the Fibonacci series. **(12+8)**
21. Write a brief note on initialization of two dimensional arrays and also write a C program to compute and print a multiplication table for number 1 to 5.
22. a) Write a C program to find matrix addition.
b) Explain the following categories (i) Functions with arguments and no return values, (ii) Functions with no arguments and no return values. **(10+10)**
