

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

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

FIRST SEMESTER – NOVEMBER 2007

AK 19

**CS 1501 - PROGRAMMING IN C**

Date : 01/11/2007  
Time : 1:00 - 4:00

Dept. No.

Max. : 100 Marks

**PART – A**

Answer all the questions:

(10 x 2 = 20)

1. What is an Algorithm?
2. List the rules for forming Identifiers.
3. Differentiate between printf and puts functions.
4. What is the use of continue statement?
5. Why do we pass arguments to a function?
6. Define Arrays.
7. What is meant by dynamic memory allocation?
8. Differentiate between Structures and Unions.
9. Give the use of fscanf and fprintf functions.
10. Write the syntax for opening a file.

**PART – B**

Answer all the questions:

(5 x 8 = 40)

11. a) Write an Algorithm to find the greatest of three numbers.  
(Or)  
b) Write short notes on data types that are used in C with examples.
12. a) Explain the different types of Input and Output statements with examples.  
(Or)  
b) Write a C program to print floyd's triangle.
13. a) What is meant by recursion? Explain with example.  
(Or)  
b) Illustrate the different types of string functions in C.
14. a) Write a C program to find the greater of two numbers using pointers.  
(Or)  
b) What is a Union? Explain with an example.
15. a) Write a C program to enter product ID, Product name, rate and store them in a file.  
(Or)  
b) How will you store data's in a file? Explain with an example.

**PART – C**

Answer any two questions:

(2 x 20 = 40)

16. a) Explain the steps that are involved in computer programming.  
b) Write a C program to display the roots of the quadratic equation.
17. a) Write a C program to find the addition of two matrices.  
b) What is a function? How will you pass arguments to a function? Explain with examples.
18. a) Write a C program to enter book id, book name, author, number of copies and display the same using Structures.  
b) Explain the various modes that are used in a file.

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