



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – APRIL 2013

CS 1503/CA 1503 - PROGRAMMING IN C

Date: 09/05/2013
Time: 1:00 - 4:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL the Questions:

(10 x 2 = 20)

1. What is Expression? Give an example.
2. What is type conversion?
3. Explain ternary operator.
4. Give the syntax of else if ladder.
5. Give the syntax for declaring by initialization string variable.
6. Define Scope and Lifetime of Variables.
7. What is a Bit Field?
8. Define Chain of Pointers.
9. Differentiate ftell & fseek.
10. Define Command Line Arguments.

PART – B

Answer ALL the Questions:

(5 x 8 = 40)

11. a) Explain in Detail about various Operators in C.
(or)
b) Draw a Flowchart to find the biggest of three numbers.
12. a) Differentiate While and for with an example.
(or)
b) Write a Menu Driven Program using switch case to Perform Arithmetic Operations.
13. a) Explain any four string handling functions.
(or)
b) Write short notes on Multifile Program.
14. a) Explain Passing Pointers to Functions with Examples.
(or)
b) Define Pointer. Write a program to swap two values using pointers.
15. a) Explain any four file operations in detail
(or)
b) What is Dynamic Memory Allocation? Explain the commands for allocating and releasing memory.

PART – C

Answer Any TWO Questions:

(2 x 20 = 40)

16. (a) Write briefly about the Basic Data Types in C.
- (b) Define Array. Give its uses. How is it declared and processed? Explain its types with suitable example.
17. (a) Define Functions. Give its uses. Write short notes on Declaration, Calling and return values of a user defined functions.
- (b) Differentiate Structures and Unions with examples.
18. (a) Give the syntax for opening and closing a file. Give all the file type specification. Write a small code to read the contents of the file.
- (b) Write an algorithm to find the sum of a given set of numbers.

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