



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCI. & COMPUTER APP.

FIRST SEMESTER – NOVEMBER 2011

CS 1501/CA 1501/CS 1500 – PROGRAMMING IN C

Date : 08-11-2011

Dept. No.

Max. : 100 Marks

Time : 1:00 - 4:00

PART - A

ANSWER ALL THE QUESTIONS:

(10X2=20 MARKS)

1. What is ternary operator?
2. What is the use of identifier?
3. Define a function prototype.
4. What is a Continue Statement? State its usefulness.
5. Write the syntax of the Do loop. Is it entry controlled or exit controlled?
6. List the difference between 'call by reference' and 'call by value'.
7. What is a nested structure?
8. Differentiate structure and array.
9. What is the common use of the fopen () function.
10. What are the various formats of a fseek function.

PART - B

ANSWER ALL THE QUESTIONS:

(5X8=40 MARKS)

11. a. Explain about the C datatypes in detail
(OR)
b. Discuss on Type Conversions.
12. a. What are the control structures in C? Give an example for each.
(OR)
b. Discuss on various formats of Scanf function in detail.
13. a. Write a program to count the number of vowels in a given string.
(OR)
b. Write a C program to generate n Fibonacci numbers using functions.
14. a. Explain about structures in detail.
(OR)
b. Write a C program to sort a one dimensional array using pointers.
15. a. Explain various File I/O operations with their syntax.
(OR)
b. Discuss on Random files with an example.

PART - C

ANSWER ANY TWO QUESTIONS:

(2X20=40 MARKS)

16. a. Write a C program to find the given number is armstrong number or not.
b. Explain about various string handling functions with suitable example program.
17. a. Write a C program to add two matrices.
b. Explain about C storage Classes with examples.
18. a. Write a C File Program to create a student data file that contains student regno, name, mark1, mark2, mark3 and mark4. Find the total, average , result and generate the report.
b. What is Recursion? Explain it with an example program.

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