LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – APRIL 2010

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

Date & Time: 28/04/2010 / 9:00 - 12:00 Dept. No.   Max. : 100 Marks

PART – A

Answer ALL the questions   **(10x2=20 Marks)**

1. Define flowchart.

2. Define an operator.

3. State the use of scanf and printf.

4. What is a continue statement?

5. Define recursion.

6. What is an array?

7. Give the difference between structures and unions.

8. Define a pointer.

9. What is the use of ftell() ?

10. Give the difference modes of operations in file?

PART - B

Answer ALL the questions   **(5x8=40 Marks)**

11. a) Write a short note on the features of C language.
        (OR)
    b) Write a short note on   data types available in C.

12. a) Give the difference between while and do while.
        (OR)
    b) Explain any four string handling functions in C.

13. a) Write a C program to perform matrix addition.
        (OR)
    b) Write a short note on storage classes.

14. a) Explain self referential structures.
        (OR)
    b) With an example explain passing pointers to function.

(P.T.O)

15. a) Explain how to open and close a data file in C.

(OR)

   b) Explain any two input operations used in file.

PART – C

Answer any TWO the questions   **(2x20=40 Marks)**

16. a) Explain various operators in C with example   (10)

   b) Write the algorithm to find the biggest of three given numbers.   (10)

17. a) Write a program in C using switch break statement to print the day of the week.

     [Hint : 1- Sunday, 2- Monday, 3- Tuesday, 4- Wednesday, 5-Thursday, 6- Friday, 7- Saturday]

(10)

   b) Write a program to calculate the factorial of a given number.   (10)

18. a) Explain the array of structures in detail.   (10)

    b) Write a program to exchange any two given numbers using pointers.   (10)

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