LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – November 2009

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

Date & Time: 14/11/2009 / 1:00 - 4:00 Dept. No. Max. : 100 Marks

PART - A **(10 x 2 = 20 marks)**

ANSWER ALL THE QUESTIONS

1. What are the four basic data types in 'C'?
2. Define Conditional Operator.
3. State the need of gets and puts functions.
4. What is a Break Statement?
5. Define external variable?
6. What is a static variable?
7. What is a Pointer?
8. Define a Default Argument.
9. What is the use of fseek ()?
10. List down the basic file operations.

PART - B **(5 x 8=40 marks)**

ANSWER ALL THE QUESTIONS

11. a) Discuss about the purpose of library functions with suitable examples.

(OR)

b) Explain various operators in 'C'.

12. a) Explain about various loop statements with examples.

(OR)

b) Explain formatted and unformatted input and output statements in detail

13. a) Explain the processing of an array with suitable example.

(OR)

b) How recursion is defined in 'C'? Explain.

14. a) Describe the term union. How does a union differ from structure? Explain.

(OR)

b) What is User-defined function? Explain with example.

15. a) Write short notes on (i) fopen, ii. fclose (iii) fscanf, iv. fprintf.

(OR)

b) Explain about Random Files with example program.

PART - C (2 x 20=40 marks)

ANSWER ANY TWO QUESTIONS

16. a) Explain the fundamental datatypes in 'C' language.

    b) Explain in detail about the following. (10 marks)
    (i) If else statement
    (ii) Switch statement ..
    (iii) Continue statement
    (iv) Goto statement.

17. a) Write a 'C' program that includes a recursive function to generate Fibonacci series. (10 marks)

    b) Write a 'C' program for student mark list using structures. (10 marks)

18. a) Explain the different methods of parameter passing to functions. Give examples. (10 marks)

    b) Write a 'C' program to copy the contents of one file into another. (10 marks)

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