LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIRST SEMESTER – NOVEMBER 2011

CS 1503/CA 1503 - PROGRAMMING IN C

Date : 08-11-2011   Dept. No.   Max. : 100 Marks
Time : 1:00 - 4:00

PART-A

Answer ALL the questions: (10 x 2 = 20)

1. Define flowchart.

2. Write a note on symbolic constants.

3. What is ternary operator?

4. What are arrays?

5. What is the function that is used to compare two strings?

6. Define recursion.

7. Differentiate between structure and unions.

8. Write a note on array of pointers.

9. What is command line arguments?

10. What is the use of dynamic Memory allocation?

PART-B

Answer ALL the questions: (5 x 8 = 40)

11. a) Explain in detail about the operators used in C programming.
            (OR)
    b) Explain briefly about the characteristics and purpose of escape sequences.

12. a) Differentiate between do-while and while statements.
            (OR)
    b) Explain in detail about the initialization of two-dimensional arrays.

13. a) Distinguish between the actual and formal parameter.
            (OR)
    b) Describe in detail about the various string handling functions.

14. a) How do you represent structure? Explain it with an example.
            (OR)
    b) Write a C program to read the bio-data of n number of students using array of structures.

15. a) Discuss about pointers in C and its advantages.
            (OR)
    b) Explain briefly about the command-line arguments.

PART-C

Answer any TWO questions: (2 x 20 = 40)

16. a) Explain in detail about the variables and data types with an example.

   b) Write a program to find out the largest and smallest element in an array.

17. a) What are functions in C? Explain the types of functions with an example.

   b) Write a program to sort an array of strings in descending order using pointers.

18. a) Describe briefly about the input/ output operations on files.

   b) Explain about error handling during Input/output operations.

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