LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

SECOND SEMESTER – **APRIL 2018**

17/16UCS2MC01– PROGRAMMING IN C

Date: 24-04-2018   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART A

Answer the questions   **(10 x 2 = 20 Marks)**

1. Define character set in C.
2. What are the different looping statements available in C?
3. Give the syntax for declaring a multidimensional array.
4. How to initialize an array in C.
5. What is recursion?
6. What are static variables?
7. Define union.
8. Define enumerated data type.
9. List the file handling functions.
10. List the operations on files.

PART B

Answer ALL the questions   **(5 x 8 = 40 Marks)**

11. a. Explain the different operators in C with examples.

   (OR)

b. Write a note on break and continue statements in C.

12. a. Write a note on reading and writing on strings with example.

   (OR)

 b. Write a C program to sort 'n' numbers in descending order.

13. a. Explain pointers in C.

   (OR)

 b. Write a note on user defined functions.

14. a. Explain the declaration and initialization of structure.

   (OR)

b. Distinguish between array and structures.

15. a. Explain the opening and closing of a data file

   (OR)

 b. Explain the command line arguments.

PART C

Answer any TWO questions   **(2 x 20 = 40 Marks)**

16. a. Discuss in detail about control structures.   **(10)**

b. Write a C program for addition of two matrices.   **(10)**

17. a. Explain in detail about pointer to structures in C.   **(10)**

b. Explain array of structures with example.   **(10)**

18. a. Describe about the reading and writing operations on files.   **(10)**

 b.   What is Recursion? Explain recursion with an example program. **(10)**

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