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FIRST SEMESTER M.A.M.Sc./M.Com. DEGREE EXAMINATION DECEMBER 2019

(CBCSS)

Computer Science

CSS 1C 04-THE ART OF PROGRAMMING METHODOLOGY

(2019 Admissions)

Time: Three Hours

Maximum: 30 Weightage

- I. Short Answer Type Questions. Answer any four questions:
 - 1 Define flow chart? Explain different flow chart symbols.
 - 2 List the different characteristics of C language.
 - 3 What is conditional operator? Explain with an example.
 - 4 Distinguish between break and continue statement.
 - 5 What are enumeration variables? How are they declared?
 - 6 Explain the use of pointers.
 - 7 What is Macros? Explain with an example.

 $(4 \times 2 = 8 \text{ weightage})$

- II. Short Essay or Problem Solving Type. Answer any four questions:
 - 8 What do you mean by command line arguments? Write a program to find the sum and average of n numbers using command line arguments.
 - 9 Write a program to insert a new integer into a sorted integer array.
 - Develop a C program to replace all occurrences of a particular letter by another letter in a given string. (Eg: replace all occurrences of 'a' in a string by 'z').
 - Write program to sort the digits of a given integer number. (Eg: Input: 67584, output: 45678)
 - 12 Write a program to sort n strings in ascending order using pointers.
 - Write a program to sort elements of given $m \times n$ matrix of integers in descending order, row-by-row.
 - 14 Explain different looping structure in C with examples.

 $(4 \times 3 = 12 \text{ weightage})$ Turn over

- III. Long Essay Type Questions. Answer any two questions:
 - 15 Explain in detail various branching statements, with examples.
 - 16 Two files DATA1 and DATA2 contain sorted lists of integers. Develop a program to produce a third file DATA which holds a single sorted, merged list of these two lists. Use command line arguments to specify the file names.
 - 17 Explain different storage class specifies with example.
 - 18 Given two one-dimensional arrays A and B which are sorted in ascending order. Write program to merge them into a single sorted array C that contains every item from arrays A and B, in ascending order.

 $(2 \times 5 = 10 \text{ weightage})$