MODEL QUESTION PAPER

Subject code: 2110003 **Subject Name:** Computer Programming and Utilization

Remembrance based sample questions	
Question no	Question Description Note: The following questions are specific to C Programming language.
A1	Recall the definitions of malloc() and free() in dynamic memory allocation.
A2	Recall and List out four built-in functions to affect string manipulation.
A3	List down various “storage class specifier”.
A4	Recall the standard definition of software listing out its various categories.
A5	Enlist various logical operators.
A6	Recall and describe different “categories of functions”.
A7	Elaborate “recursion function”.
A8	Recall few constants with example.
A9	Recall various file management functions.
A10	Recall the application of atoi() function.

Understanding based sample questions	
Question no	*Question Description* *Note : The following questions are specific to C Programming language.*
B1	What do you understand by "array of characters" in the form of string. Right a simple program based on your understanding about "array of characters as string".
B2	What do you understand by : 1. "call by value" 2. "call by reference" And compare the same with suitable example.
B3	Illustrate the concept of "structure". Write a small program that showcase the concept of structure.
B4	What do you understand by "pointer to structure", write a simple program demonstrating this concept.
B5	Discuss about the various data types.
B6	Distinguish between "while" and "do while" statement.
B7	State the use of conditional inclusions in "Pre-processor Directive" with the help of an example program?
B8	Conceptualize a comprehensive comparison of structures and unions.

Application and analysis based sample questions	
Question no	*Question Description* *Note: The following questions are specific to C Programming language.*
C1	Write a **program** to print the **program** itself.
C2	Develop an application program to compute X^Y utilizing the concept of recursive function.
C3	Develop a simple program to sort 10 integer values in ascending order without using array. NOTE: Assume that the integer values to be sorted are stored in a file.
C4	Design a subroutine based program which will ensure the following functionalities : i) Subroutine will take two strings as arguments ii) Subroutine will return 1 if the string in the first argument contained in the second argument, else returns 0.
C5	Develop an application which will identify whether a given string is palindrome or not.
C6	Create an application to demonstrate the insertion of data in a linked list.