



R V College of Engineering
Department of Computer Science and Engineering
CIE - II: Question Paper

**Subject :
(Code)**

Principles of programming using C (22CS23)

Semester : 2nd BE

Date :22/08/2023

Duration : 90 minutes

Staff :

Name :

USN :

Section :

PART-A

		M	BT	Co
1.	Write a program to perform the following operations using user defined functions. a. To read n integer numbers from the user b. To print largest of n numbers and its position c. To print smallest of n numbers and its position Note: Use the category – Function with arguments and no return value.	10	L3	2
2a.	Create a function that takes an integer parameter representing the day number of the week and print the corresponding name of the day. For instance, if dayno=1, the day is Sunday.	6	L2	3
2b.	Explain the compile time and run time initialization of two dimensional arrays with examples.	4	L1	2
3.	Write a C program to read First Name, Middle Name and Last Name of an employee and store the concatenated three names in to a new character array without using built-in function. And print the full name of an employee.	10	L3	3
4a.	Compare the following functions with syntax and examples for each. i) gets() and puts() ii) strcat() and strncat() iii) strcmp() and strncmp()	6	L1	2
4b.	Write a program to copy one string into another without using string handling library function.	4	L2	2
5.	Write a C program to read a matrix and perform the following operations: a) Transpose of a given matrix b) Sum of the primary diagonal elements of a matrix	10	L2	3

CO1	Apply logical skills to solve the engineering problems using C programming constructs
CO2	Evaluate the appropriate method/data structure required in C programming to develop solutions by investigating the problem.
CO3	Design a sustainable solution using C programming with societal and environmental concern by engaging in lifelong learning for emerging technology
CO4	Demonstrate programming skills to solve inter-disciplinary problems using modern tools effectively by exhibiting team work through oral presentation and written reports

	L1	L2	L3	L4	L5	L6	CO1	CO2	CO3	CO4
Total Marks	10	20	20	-	-	-	-	24	26	-