R V College of Engineering
Department of Computer Science and Engineering
Improvement Test Question Paper

Subject : (Code)	Principles of programming using C (22CS23)	Semester : 2nd BE

Date :7/09/2023	Duration : 90 minutes	Staff :

Name :	USN : 1RV22AI007	Section :

	PART-A	M	BT	Co
1a.	Write a C Program to demonstrate working of malloc().	6	L3	1
1b.	What will happen if we add or subtract a integer to or form pointer variable explain with appropriate example.	4	L2	1
2a.	Write a C program to print the Fibonacci series using recursion.	6	L2	3
2b.	Explain the utility of typedef keyword in structure with example.	4	L1	2
3a.	Write a C program to create the structure called complex with real and imaginary as members and perform the addition of two numbers.	6	L3	3
3b.	Explain with example how structures are initialized.	4	L2	1
4a.	Write a program to reverse the string using pointers.	6	L1	3
4b.	Explain the passing induvial members of structures to functions with example.	4	L2	2
5a.	Write a 'C' program to swap the values of two variables by using call by reference	6	L2	3
5b.	Is it possible to create an array of structures? Explain with example	4	L1	2

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	14	24	12	-	-	-	14	12	24	-