## TEEGALA KRISHNA REDDY ENGINEERING COLLEGE

(UGC – AUTONOMOUS)
B TECH I Semester Examinations, July 2021
(Common to CE, ECE)

## PROGRAMMING FOR PROBLEM SOLVING

## **Answer any Five questions All questions carry equal marks**

	Time: 3 Hours	Max. Marks : 75
1.	A) List the characteristics of C language? B) What are the categories of operators in C? Explain the constant operators?	erator in C an (7 + 8)
2.	<ul><li>A) Define an Array and its representation with an example?</li><li>B) Write a program for Matrix Multiplication?</li></ul>	(6+9)
3.	<ul><li>A) List different types of files in C? Explain in brief</li><li>B) Explain C files handling operations in detail?</li></ul>	(7+8)
4.	<ul><li>A) Explain recursion in brief?</li><li>B) Write a program to find factorial of a given number using recursion</li></ul>	L
		(7+8)
5.	A) Explain bubble sort algorithm with an example B) Write an algorithm to check whether a given number is prime or no	t (7+8)
6.	A) What is Flow Chart? Explain various symbols used in Flow Chart? B) Draw a flow chart to determine whether a given string is a palindro	me or not (7+8)
7.	A) What is a function? What is the need for user defined Function?  B) Write a program to interchange the values of two variables using fu	nctions (7+8)
8.	A) Explain pointers concepts in C with an example B) How many types of memory allocation done in c? Explain with an	example (7+8)
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