





**Question Paper Code** 

CS203ES

An AUTONOMOUS Institution

ACE-R20

## Semester End Examination I B. Tech- II Semester- OCTOBER 2021 PROGRAMMING FOR PROBLEM SOLVING

(common to EEE, CSE,IT,CSD)

Time: 3 Hours									Max. Marks: 70			
	H. T. No											

Answer any five full questions from the following. All Questions carry equal marks.

M=Marks; CO=Course Outcomes; PO= Program Outcomes

Q.No	Question	M	CO	PO
1.	Explain various types of operators supported by C language.	14	1	1,2
2.a)	Explain the steps involved in creating, compiling and executing a C		1	1,2
	Program.			
b)	Explain various Storage classes supported by C language.	4	1	2
3 a).	a). Write a program to find the largest element in an Array of integer		3	3
	elements with step by step procedure and program.			
<b>b</b> ) W	Write and explain the general format for declaring and accessing	4	3	2
	members of a structure.			
4.	With the help of syntax and example program explain various string	14	3	3
	handling functions.			
5.a)	Discuss in detail about the file positions functions.	4	4	2
<b>b</b> )	Write a 'C' program to count the number of words, vowels	10	4	3
	and consonants present in a file.			
6. a)	Differentiate between Call by value and Call by reference.	4	5	1
<b>b</b> )	Write a program in C to calculate the sum of numbers from 1 to n	10	5	3
	using recursion.			
7.	Write a C program to find the length of a given string without using	14	5	3
	built-in functions. Also check whether the given string is palindrome or			
	not.			
8.	Write a program to implement Insertion Sort with example program.	14	6	3