Course Code: 2010501 Roll No: MLRS- R20



MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

I B.TECH I Sem Regular End Examination, July 2021 PROGRAMMING FOR PROBLEM SOLVING (CE, CSC, CSD, ECE & MECH)

Time: 3 Hours. Max. Marks: 70

Note: 1. Answer any FIVE questions.

2. Each question carries 14 marks and may have a, b as sub questions.

1	a)	Explain in detail about relational operators with examples.	7M	CO3	L2
	b)	Discuss the concept of type conversion in C.	7M	CO3	L2
2	a)	List and explain various storage classes available in C.	7M	CO3,4	L2
	b)	Define Flowchart. Draw a flowchart to find roots of quadratic equation.	7M	CO2	L5
3		Describe the various control statements available in 'C'.	14M	CO3	L2
4	a)	Write a C program to find whether the given no is prime or not.	7M	CO3	L3
	b)	Write a C program for addition of given two matrices.	7M	CO3,5	L3
5	a)	Explain any FIVE string handling functions with syntax and program.	7M	CO3,5	L2
	b)	Differentiate between structure and union in C.	7M	CO5	L4
6	a)	List and explain the functions used to allocate and free memory dynamically.	7M	CO4	L2
	b)	Define Recursion. Write a recursive function for factorial of a given number n.	7M	CO4	L1,3
7	a)	Explain call by value parameter passing mechanism with an example.	7M	CO4	L2
	b)	Write a C program to merge two files into third file.	7M	CO4	L5
8	a)	List and explain various file read/write functions available in C with examples illustrating their usage and implementation.	7M	CO3	L1,2
	b)	Explain about preprocessor commands: define, undef, ifdef	7M	CO3	L2