

Course Code: 1910501

Roll No:

MLRS-R19



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 Section 2(f) & 12(B) of the UGC act, 1956

I B.TECH I Sem Supply End Examination, July 2021
PROGRAMMING FOR PROBLEM SOLVING
(CIVIL, MECH & ECE)

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.

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|---|---|----|----|----|
| 1 | a) Explain about auto and static storage classes with an example? | 7M | CO | BL |
| | b) Write a C program to find the prime numbers between 1 to n. | 7M | CO | BL |
| 2 | a) Explain command line arguments with an example? | 7M | CO | BL |
| | What are the differences between while and do-while statements? Write | | | |
| | b) a C program to find whether a given number is even or odd using ternary operators. | 7M | CO | BL |
| 3 | a) Explain strlen() and strcpy() string handling functions with an example? | 7M | CO | BL |
| | b) Write a C program to perform addition of two matrices. | 7M | CO | BL |
| 4 | a) List and explain pre-processor commands. | 7M | CO | BL |
| | b) Write a C program to copy the contents of one file to another file. | 7M | CO | BL |
| 5 | a) What are the differences between scanf() and gets() functions? Explain. | 7M | CO | BL |
| | b) Define file pointer? What are the differences between text and binary files? | 7M | CO | BL |
| 6 | a) Explain call by value mechanism with an example. | 7M | CO | BL |
| | b) Define recursion? Write a C program to find the sum of first n natural numbers using recursion. | 7M | CO | BL |
| 7 | a) What are DMA functions? Why we use DMA functions? | 7M | CO | BL |
| | b) Write an algorithm and draw the flow chart to find the maximum of three numbers? | 7M | CO | BL |
| 8 | a) Define sorting? Apply bubble sort method to arrange the given numbers in ascending order. { 45, 34, 89, 67, 48, 0, 3, 2, 1 } | 7M | CO | BL |
| | b) Write a C program to implement binary search method. | 7M | CO | BL |