



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 II Sem Supplementary Examination, December-2021 PROGRAMMING FOR PROBLEM SOLVING (EEE, CSE, IT)

Time: 3 Hours.**Max. Marks: 70**

Note: 1. Question paper consists: Part-A and Part-B.

2. In Part – A, answer all questions which carries 20 marks.

3. In Part – B, answer any one question from each unit.

Each question carries 10 marks and may have a, b as sub questions.

PART- A**(10*2 Marks = 20 Marks)**

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|--|----|-----|---|
| 1. a) Define Compiler. | 2M | CO1 | 1 |
| b) What is meant by type casting? Give an example. | 2M | CO1 | 2 |
| c) What is enum? Explain briefly. | 2M | CO2 | 4 |
| d) Define array. | 2M | CO2 | 1 |
| e) Give syntax of fseek and its usage. | 2M | CO3 | 2 |
| f) List out different file modes. | 2M | CO3 | 1 |
| g) What is function and identify the signature of function. | 2M | CO4 | 3 |
| h) Give syntax of malloc function and state its purpose. | 2M | CO4 | 5 |
| i) What is meant by time complexity. | 2M | CO5 | 6 |
| j) What is sorting and give example some sorting techniques. | 2M | CO5 | 1 |

PART- B**(10*5 Marks = 50 Marks)**

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|--|----|-----|---|
| 2 a) List storage classes and explain in detail. | 5M | CO1 | 3 |
| b) Discuss if-else-if ladder with examples program | 5M | CO1 | 6 |

OR

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|---|-----|-----|---|
| 3 Explain different operators in C language. | 10M | CO1 | 2 |
| 4 a) Discuss single dimensional arrays and its syntax and initialization. | 5M | CO2 | 4 |
| b) Define pointer and operations on pointers. | 5M | CO2 | 1 |

OR

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|--|-----|-----|---|
| 5 Explain different string handling functions. | 10M | CO2 | 5 |
|--|-----|-----|---|

6	a) Give the steps to create file in C language.	5M	C03	6
	b) Write code to read the data from text file.	5M	C03	3
OR				
7	Explain different functions to deal with random access files.	10M	C03	2
8	a) Distinguish call by value Vs Call by reference	5M	C04	4
	b) Write a simple function to find the area of circle using parameter.	5M	C04	5
OR				
9	What is recursion and write recursive function to find Fibonacci number.	10M	C04	1
10	a) State the algorithm to find max from an array.	5M	C05	5
	b) Write simple program for linear search.	5M	C05	2
OR				
11	Analyze the bubble sort with an example.	10M	C05	6

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BL: Blooms Taxonomy Levels

Note: 1. Font style: Cambria.

2. Bloom's Taxonomy Level (BL) have to mention for each question.

For reference, find the attachment in the mail.