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

MLRS

I B.Tech II Sem Supplementary Examination, September 2022
Programming for Problem Solving
(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)

1.	a)	Name any five features of C programming Language.	2M	CO1	BL1
	b)	Describes primary and secondary memory	2M	CO1	BL1
	c)	How to declare, define and initialize a pointer?	2M	CO2	BL1
	d)	What is meant by an array of pointers? when it will be useful.	2M	CO2	BL1
	e)	What is file? Write two advantages?	2M	CO3	BL1
	f)	Describes text and binary file	2M	CO3	BL2
	g)	Write an algorithm for printing the n terms in the Fibonacci sequence.	2M	CO4	BL1
	h)	Defines a recursive function.	2M	CO4	BL1
	i)	What is linear search algorithm?	2M	CO5	BL1
	j)	Write any two advantages of binary search algorithm.	2M	CO5	BL1

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

2	a)	Draw a flow chart to find the maximum of the given three numbers	5M	CO1	BL5
	b)	Explain Storage classes with examples	5M	CO1	BL2

OR

3	a)	Distinguish between if and switch statements	5M	CO1	BL2
	b)	Write the syntax of while and do while	5M	CO1	BL1

4	a)	Write a C program for the finding the minimum element in an array.	5M	CO2	BL1
	b)	What is Enumeration data type explain with example	5M	CO2	BL1

OR

5	a)	Describe various control structures available c	5M	CO2	BL2
	b)	What is an array? Explain the two-dimensional array with a suitable example program in c	5M	CO2	BL1

6	a)	Explain preprocessor directives with suitable examples	5M	CO3	BL1
	b)	Write a C program to count number of occurrences of a character in a given file.	5M	CO3	BL3

OR

7	a)	Discuss the significance of Preprocessor commands with example	5M	CO3	BL2
	b)	Discuss the file handling functions feof. fsecl with examples	5M	CO3	BL2

8	a)	Write a program to swap two numbers using functions	5M	CO4	BL4
	b)	What is meant by binary file? Discuss about file positioning functions.	5M	CO4	BL2

OR

9	a)	Explain the difference between 'call by value' and 'call by reference' using pointers	5M	CO4	BL5
	b)	Classify what are the standard functions and libraries in c	5M	CO4	BL2

10	a)	Compare selection sort with insertion sort with suitable examples.	5M	CO5	BL2
	b)	Explain linear search technique with suitable example	5M	CO5	BL2

OR

11	a)	Explain binary search technique with suitable example	5M	CO5	BL2
	b)	Compare insertion with bubble sort with suitable examples.	5M	CO5	BL2

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CO: Course Outcome   **BL - Blooms Taxonomy Levels**