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 II Sem Regular Examination, October/November 2020
PROGRAMING FOR PROBLEM SOLVING
(**EEE, CSE & IT**)

Time: 2 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)	Define an algorithm? Write an algorithm to find the biggest of given three numbers.	6M
	b)	Explain different storage classes in C with an example programs.	8M
2	a)	Explain Command line arguments with an example.	7M
	b)	Define an operator? Explain Bitwise and Ternary operators with an example program.	7M
3	a)	Define an array? Write a C program to find the transpose of a given matrix.	7M
	b)	Explain Self referential structures with an example program.	7M
4	a)	Explain any three preprocessor commands in C with an example programs.	7M
	b)	Explain random accessing file functions.	7M
5	a)	Define a function? Explain call by reference parameter passing mechanism with an example program.	7M
	b)	Explain different DMA functions.	7M
6	a)	Explain Binary search algorithm with an example.	7M
	b)	Arrange the following numbers in ascending order using Bubble sort: 12, 17, 1, 0, 15, 3, 2, 6	7M
7	a)	Define a recursion? Write a C program to find factorial of a given number using recursion.	7M
	b)	Explain different modes to create text and binary files.	7M
8	a)	Explain different string handling functions in C with an example.	7M
	b)	Explain selection sort algorithm with an example.	7M

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