Final: 29-10-11

Course Code: 1931213

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 Section2(f) & 12(B)of the UGC act, 1956

II B.Tech I Sem Supply End Examination, October 2021
COMPUTER ORGANIZATION AND MICROPROCESSORS

(IT)

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)	Draw the block diagram of Digital Computer and explain all elements of it?	7M	CO1	BL4
	b)	Write about the operation of Micro Programmed Control unit with neat diagram?	7M	CO1	BL1
2		Write about Instruction and Instruction code with examples? And also Explain Instruction Cycle and Memory reference instructions?	14M	CO1	BL4
3	a)	What is an addressing mode? Explain various addressing modes?	7M	CO2	BL1
	b)	Write about instruction set of 8086 with the instruction formats?	7M	CO2	BL1
4		What is an Interrupt? Write about software and Hardware interrupts? Also Explain Interrupt Service Routines?	14M	CO2	BL4
5	a)	Explain all Special Function registers of the 8086 Processor with its architecture diagram?	7M	CO3	BL4
	b)	What is a Macro? Explain the role of it with suitable examples?	7M	CO3	BL4
6		Explain Direct Memory Access with a diagram?	14M	CO4	BL4
7	a)	Explain Floating-point Arithmetic Operations?	7M	CO4	BL4
	b)	Write about pipelining in Parallel Processing?	7M	C05	BL1
8		Explain Auxiliary memory and Associate memory?	14M	CO5	BL4

