Max. Marks: 70



Time: 3 Hours.

## 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 Regular End Examination, March 2021 COMPUTER ORGANIZATION AND MICROPROCESSORS (IT)

Note: 1. Answer any FIVE questions. 2. Each question carries 14 marks and may have a, b as sub questions. a) What is an Instruction code? Explain with examples? 7M CO BL CO b) Explain Instruction Cycle and Memory reference instructions? 7M BL 2 Describe the operation of Micro Programmed Control unit with neat 14M CO BL diagram? Write the advantages of it? CO BL 3 Draw the 8086 Processor Architecture diagram? Explain all Special 7M Function registers? BLb) Define addressing mode? Write about various addressing modes? 7M CO What is an Interrupt? Explain various interrupts? Write about 14M CO BL 4 Interrupt Service Routines? 5 CO Explain instruction set of 8086 with their instruction formats? 7M BL Define Macro? Explain the role of it with suitable examples? 7M CO BL CO BLExplain Floating-point Arithmetic Operations with examples? 14M 6 7M CO BL 7 a) Write about DMA? 7M CO BL b) What is Associate memory? Explain? BL 14M CO 8 Explain pipelining in Parallel Processing?