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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
II B.Tech I Semester Regular Examinations, February 2022
Computer Organization and Microprocessors
(CSE-IOT & IT)

Roll No										

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

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1 a) Draw the Block diagram of Digital Computer and explain?   **[7M]**
    b) Define micro programmed control.   **[3M]**
    c) Define parallelism in microinstruction.   **[4M]**

OR

2 Explain
    i)Instruction codes   **[7M]**
    ii) Computer Registers   **[3M]**
    iii) Computer instructions   **[4M]**

SECTION-II

3 Explain about Register organization, Physical memory organization of 8086   **[14M]**
    microprocessor

OR

4 a) Explain different types of Addressing modes of 8086?   **[7M]**
    b) explain Assembler directives of 8086 microprocessor   **[7M]**

SECTION-III

5   Explain the Stack Structure Of 8086   **[14M]**

OR

6 a)Explain the passing parameters to procedures in 8086 microprocessor   **[7M]**
    b) Explain about Macros.   **[7M]**

SECTION-IV

7 a) Describe the algorithm for integer division with suitable examples?   **[7M]**
    b) Explain i)Direct memory Access,   **[7M]**
           ii) Input –Output Processor (IOP)

OR

8 a) Explain with an example how to multiply two unsigned binary numbers?   **[7M]**
    b) Explain about Peripheral Devices, Input-Output Interface?   **[7M]**

SECTION-V

9 Explain
    i) Auxiliary memory   **[7M]**
     ii)Associate Memory   **[3M]**
     iii)Cache Memory   **[4M]**

OR

10   What is pipelining? What are the different types of Pipelining?   **[14M]**

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