THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Re-accredited (2nd Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

Course Code: PHY 3495/3595/3575/3455   **Time: 3hrs**

Course Title: Microprocessor   **Max: 75 marks**

PART - A

Answer ANY FIVE questions   **(5 X 15 = 75)**

1. Explain the architecture of 8088 microprocessor and discuss the functions of various pins by drawing its pin diagram.

2. With relevant examples, explain immediate and register addressing modes used in 8088 microprocessor.

3. Elaborately discuss about the arithmetic and logic instructions used in 8088 microprocessor.

4. Describe the minimum mode memory read and memory write bus cycles of 8088 microprocessor with necessary diagrams.

5. With a neat block diagram, explain the operation of the programmable direct memory access controller 8237 A.

6. Explain the operating sequence of a stepper motor with necessary diagram. How will you interface it with PIC microcontroller?

7. Write down programs in 8086/8088 microprocessor to arrange the given set of numbers in (i) ascending and (ii) descending orders.

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