B.Voc. (Electronics and Information Technology) (Sem.–4)
INTRODUCTION TO MICROPROCESSOR
Subject Code : BVET-402-22
M.Code : 91664
Date of Examination : 07-07-22

Time : 3 Hrs.   **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

1. **Write briefly :**

    a) How interrupt is handled by microprocessor?

    b) List any three advantages of 8086 microprocessor over 8085 microprocessor.

    c) List the four categories of 8085 instructions that manipulate data.

    d) Draw the timing diagram of the memory read cycle.

    e) Which Flags are affected when CMA instruction is executed?

    f) What are PUSH & POP Instructions?

    g) List various characteristics of RISC.

    h) What is an instruction cycle? List its phases.

    i) What is the purpose of queue in 8086?

    j) Write three methods to clear Accumulator.

SECTION-B

2. Draw and explain the block diagram of 8085 μP and briefly the function of each pin.

3. What are various arithmetic and branch instructions? Discuss the working of each arithmetic instruction and branch instruction by taking suitable examples.

4. Discuss various addressing modes for 8085 microprocessor with suitable examples.

5. Write an assembly language program to add 10 numbers.

6. Give a setup to interface keyboard with 8085 microprocessor.

SECTION-C

7. Explain the bus structure for an 8-bit microprocessor. Give the execution of an instruction of its flow in a system.

8. Draw the functional block diagram of 8086. Discuss the concept of pipeline.

9. Write the short note on any two:

    a) DMA controller

    b) Memory segmentation.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.