BCA   (Sem.–4)
MICROPROCESSORS & MICROCONTROLLERS
Subject Code : BSBC-402
M.Code : 10067
Date of Examination : 15-12-22

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 SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

1. **Answer briefly :**

    a) What is the use of Microcontroller?

    b) Write the importance of Assembly Language.

    c) Define stack pointer in 8085 microprocessor.

    d) Explain the phases of Instruction Cycle.

    e) Define control Instructions.

    f) Write about role of Internal memories.

    g) What is the concept of asynchronous serial communication?

    h) What are software interrupts?

    i) Write fee function of clock generator.

    j) Discuss the need of 8257 DMA controller.

SECTION-B

2. Illustrate the pin configuration of 8085 microprocessor with use of diagram.

3. What are addressing modes in microprocessor? Give the examples of immediate and register addressing modes.

4. Differentiate between RISC and CISC processors.

5. Discuss in detail the use of ROM based controller in microprocessor.

6. What is the use of microcontroller resources? Explain the architecture of 8051 microcontroller.

7. What is the function of Programmable Interrupt ? Explain the architecture of 8259 Programmable Interrupt controller.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.