BCA (2013 & Onwards) (Sem.–4)
MICROPROCESSORS & MICROCONTROLLERS
Subject Code : BSBC-402
M.Code : 10067

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

INSTRUCTION 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) List some applications of Microprocessor.

   b) Write the advantages of assembly language.

   c) Define Accumulator in 8085 microprocessor.

   d) What is Instruction cycle?

   e) Define logical Instructions.

   f) Write about role of External memories.

   g) What is the concept of synchronous serial communication?

   h) Discuss the importance of Interrupts in microprocessor.

   i) What is clock generator?

   j) Discuss the need of 8259 Programmable Interrupt controller?

SECTION-B

2. Illustrate the components of 8085 architecture with use of block diagram.

3. What are addressing modes in microprocessor? Give the examples of direct and indirect addressing modes.

4. List the advantages and disadvantages of RISC and CISC processors.

5. Discuss the need of microcontroller resources. Explain the architecture of microcontroller.

6. Explain in detail the use of counters and timers in microprocessor.

7. What is the function of DMA? Explain the architecture of 8257 DMA 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.