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Total No. of Questions : 07

BCA (2014 to 2018)   (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) What is the difference between a Microprocessor and Micro-controller?

    (b) What is the difference between internal and external memories?

    (c) What is the use of flags?

    (d) What are microcontroller resources?

    (e) What is the baud rate of 8051?

    (f) What is a clock generator?

    (g) What is the use of timing diagrams?

    (h) What are logical instructions?

    (i) What is an addressing mode?

    (j) What is the difference between instruction and machine cycle?

SECTION-B

2. Explain various addressing modes in 8085. Give examples of direct and indirect addressing modes.

3. Discuss the architecture of 8085 along with Pin diagram.

4. Explain the architecture and the working of 8051 Microcontroller in detail.

5. Explain instruction cycle in detail.

6. Discuss the architecture of Programmable interrupt controller.

7. Give the Historical background of Microprocessors based on the computational Power advancement with respect to time.

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.