

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-3rd)

INTRODUCTION TO MICROPROCESSOR

Subject Code : BC- 305 (2007 to 2010 Batch)

Paper ID : [B0213]

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 students has to attempt any FOUR questions.

SECTION-A**I. Answer briefly :**

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- a) What are uses of microcontroller? Explain.
- b) What are branch instructions in 8085?
- c) What is 8284A? Explain.
- d) What is co-processor? Explain.
- e) Explain the difference between 8bit and 16bit microprocessors.
- f) What is instruction cycle? Explain.
- g) What are various program control instructions in 8086?
- h) What is difference between 8085 and 8086 microprocessor?
- i) What is interrupt cycle? Explain.
- j) What are latest microprocessors? List any three latest micro processors.

SECTION-B

2. What is microprocessor? What are its applications? Explain the architecture and working of 8086 microprocessor.
3. Why different addressing modes are used? Explain various addressing modes of Intel 8086 with examples.
4. What are basic DMA operations? Explain the architecture of 8237 DMA controller.
5. Write a note on the following :
 - a) Interrupt and its types.
 - b) Interrupt controller.
6. Define RISC processor. What are its characteristics? Explain how it is different from CISC processor?
7. Write a note on the following :
 - a) Real and protected mode of memory addressing.
 - b) Data transfer instructions in Intel 8085.