

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 07

**BCA (2010 Batch) (Sem.-3)**  
**INTRODUCTION TO MICROPROCESSOR**  
Subject Code : BC-305  
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 a student has to attempt any FOUR questions.

**SECTION-A****1. Write briefly :**

- a) Give the power supply and clock frequency of 8085 Microprocessor.
  - b) Define Operand and Opcode.
  - c) What is the difference between the shift and rotate instructions?
  - d) What is the use of bi-directional buffers?
  - e) What is meant by clock pulse in Microprocessor?
  - f) What are the functions of Execution Unit (EU)?
  - g) What is nibble, byte and word?
  - h) What is DMA?
  - i) Define pipelining.
  - j) What are the flags in 8086?
-

## SECTION-B

2. What is Microprocessor? Discuss its evolution and the applications of microprocessor.
3. What is an Instruction? Explain instruction Cycle. Discuss the different types of Instructions used in 8085 Microprocessor.
4. Define Interrupts and its types. Discuss Interrupt service routines with Interrupt cycle of 8086.
5. Define the architecture of 8086 Microprocessor. Draw and explain its pin diagram.
6. What is the significance of DMA controller? Explain its operations with block diagram.
7. Write short notes on the following :
  - a) Working of clock generator
  - b) Branch Instructions

a2zpapers.com