

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & Onwards) (Sem.-4)
MICROPROCESSORS & MICROCONTROLLERS
Subject Code : BSBC-402
Paper ID : [B0241]

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. Short Answer Questions :

- a) What is Program counter?
- b) What is difference in 3rd and 4th generation processor?
- c) Explain the components of the Instruction Set with example.
- d) What are various Logical Instructions available in 8085?
- e) Which interrupt has the highest priority?
- f) What is meant by LATCH?
- g) Explain the Synchronous Serial and Asynchronous Serial Communication.
- h) In 8085 which is called as High order / Low order Register?
- i) What are various control instructions?
- j) What is bi-directional bus?

SECTION-B

2. Draw and explain the Pin Diagram of 8085.
3. What is Memory Interfacing? Explain the role of bus.
4. What is Addressing technique? Explain 5 different addressing modes.
5. What is the difference between Software interrupts and Hardware interrupts?
6. Explain the architecture of DMA Controller 8257.
7. Explain the architecture of 8284 clock generator.