

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2011 & Onward) (Sem.-4)
MICROPROCESSORS & MICROCONTROLLERS

Subject Code : BSBC-402

Paper ID : [B0241]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS 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

1 Write briefly :

1. What are various arithmetic instructions? Explain with examples.
2. What is need of clock generator?
3. What is DMA? Explain its working.
4. What is micro instruction? Explain with example.
5. What is interrupt cycle? Explain.
6. What are various pins of 8085 microprocessor?
7. List four applications of microprocessor.
8. What is an instruction cycle?
9. What are logical instructions? Explain their use with example.
10. What is an instruction set? Elaborate.

SECTION-B

2. Give historical background of Microprocessors. Stating how they have evolved in terms of computation power.
3. Elaborate the Pin diagram of 8085 microprocessor.
4. Discuss importance of timing diagram of memory Read/Write operations. How they facilitate various operations in a Microprocessor?
5. Discuss various types of addressing modes available. Giving example of branch instructions show how they are important in computation.
6. Explain architecture of a Microcontroller. What is the difference between Microprocessor and Microcontroller?
7. What is an Interrupt? What are its various types and how it can be handled?