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Total No. of Questions: 07

Total No. of Pages: 01

BCA (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 students have to attempt any **FOUR** questions.

SECTION A

- I.
 - a) Write four applications of microprocessor.
 - b) What are Counters and Timers?
 - c) What is the purpose of parity flag?
 - d) What is the use of branch instruction?
 - e) What is accumulator? Explain its role in 8085 microprocessor?
 - f) Explain Instruction set.
 - g) How does the 8086 differ from the 8085 microprocessor?
 - h) How many I/O ports are present in the 8086?
 - i) What are the different types of memory addressing modes?
 - j) What do you mean by memory paging?

SECTION B

2. Explain the interrupt mechanism of 8086 microprocessor.
3. With the help of diagram explain minimum mode memory read bus cycle of 8088.
4. Explain the architecture of 82C55A PPI in detail.
5.
 - a) Explain architecture of 8251e USART.
 - b) Define simplex, a half duplex, and a full-duplex communication link.
6. Explain execution and bus interface units of 8088.
7. Explain pin diagram of 8088.