Roll No.							Total No. of Pages: 02

Total No. of Questions: 07

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

M Code: 10067 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 have to attempt any FOUR questions.

SECTION A

- 1. Briefly answer the following:
 - a) What is the difference between a microprocessor and a microcontroller?
 - b) Name various pins of 8085.
 - c) What are logical instructions?
 - d) What is the use of timing diagrams?
 - e) Differentiate between direct and indirect addressing modes.
 - f) What are counters and timers?
 - g) What is the difference between internal and external memories?
 - h) What is an Interrupt? What is the use of interrupts?
 - i) What are ROM based controllers?
 - j) What is asynchronous serial communication?

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SECTION B

- 2. What is a Microprocessor? What are the various applications of Microprocessors? Also give a brief history of microprocessors.
- 3. Explain the architecture of 8085 microprocessor in detail.
- 4. Explain the instruction cycle in detail.
- 5. Discuss and compare RISC and CISC processors.
- 6. What is a Microcontroller? What do you mean by microcontroller resources? Discuss resources in advanced and next generation microcontrollers.
- 7. Elaborate in detail the architecture of DMA controller 8257.

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