

Roll No.

Total No. of Questions : 07]

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BCA (Sem. 3rd)
INTRODUCTION TO MICROPROCESSOR
SUBJECT CODE : BC - 305
Paper ID : [B0213]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours**Maximum Marks : 60****Instruction to Candidates:**

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

Section - A**Q1)****(10 × 2 = 20)**

- a) What are various arithmetic instructions? Explain with examples.
- b) What is DMA? Explain its working.
- c) What is need of clock generator? Explain.
- d) What is co processor? Explain the working of arithmetic co processor.
- e) What is micro instruction? Explain with example.
- f) What is interrupt cycle? Explain.
- g) What is basic principle of 8237 DMA Controller?
- h) List any five latest microprocessors available in commercial market.
- i) What are logical instructions? Explain with example.
- j) What are various types of pins in 8086 microprocessor?

Section - B**(4 × 10 = 40)**

- Q2)** What are basic components of 8085 microprocessor? Explain the need and functionality of each component.
- Q3)** Define instruction? What is its format? Explain various data transfer instruction available in 8085 microprocessor with examples.
- Q4)** What is interrupt? Explain its types? Draw and explain working of 8257 interrupt controller.
- Q5)** Write note on the following:
 - Branch instructions
 - Real and protected memory addressing.
- Q6)** What are addressing modes? Why we have number of addressing modes. Explain the difference between immediate, relative and index addressing modes.
- Q7)** What is microprocessor? How it is different from microcontroller? Discuss the evolution of microprocessors.

