

Roll No.

Total No. of Questions : 07]

[Total No. of Pages : 02

BCA (Sem. - 3rd)

INTRODUCTION TO MICROPROCESSOR

SUBJECT CODE : BC - 305Paper 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) List any three applications of microprocessor.
- b) Explain 8085 microprocessor's instruction cycle?
- c) What is 8bit microprocessor? List any two 8 bit microprocessor.
- d) What is microcontroller? Explain.
- e) Draw pin diagram of Intel 8086 microprocessor.
- f) List various general purpose register available in Intel 8085.
- g) What is accumulator? Explain its role in 8085 microprocessor.
- h) What is use of flag in microprocessor?
- i) What is INTR and INTA? Explain.
- j) Explain how Dual core is different from core 2 Duo.

- Q2)** What is microprocessor? Discuss its evolution. Draw and explain the architecture of Intel 8085 microprocessor.
- Q3)** What is instruction? Explain instruction format? Discuss various types of instruction used in 8085 microprocessor.
- Q4)** Write a note on the following :
- (a) DMA controller.
 - (b) Clock generator.
- Q5)** What is interrupt? Explain the difference between hardware and software interrupt. Also explain the working of 8257 interrupt controller.
- Q6)** What is real and protected mode memory addressing? Also explain various addressing modes available in Intel 8086.
- Q7)** Write a note on the following :
- (a) CISC and RISC processor.
 - (b) Arithmetic Co-processor.

