

Roll No.....

Total No. of Questions:07

MAY 2014

Total No. of Pages:2

BCA(IV Sem)

Microprocessors and Microcontrollers

Subject Code:BSBC 402

Time:03 Hours

MM:60

Instructions to Candidates:

1. Section A is compulsory.
2. Attempt any four questions from Section B.

Section A

(10*2 20)

- 1.a) Define Machine cycle.
- b) Draw the timing diagram for memory read instruction.
- c) Explain System bus.
- d) Logical operations.
- e) Explain instruction word size.
- f) ROM based controller
- g) What is the importance of arithmetic coprocessor?
- h) Explain the purpose of CLK signal in 8085.
- i) What is the use of microcontroller resources?
- j) Explain transparent mode.

Section B

(4*10 40)

2. Explain 8085 with pin diagram.
3. Discuss addressing modes of 8085 with example.
- 4.a) Differentiate between RISC and CISC.

- b) Write a program in assembly language to find greatest between 2 numbers.
- 5. Explain 8051 microcontroller interrupt.
- 6. Discuss the operation and architecture of 8259.
- 7. Explain the architecture of 8257.