

Roll No

CS - 601
B.E. VI Semester
Examination, December 2014
Micro Processor and Interfacing

Time : Three Hours

Maximum Marks : 70

Note: Attempt any one question from each unit. All questions carry equal marks.

Unit - I

1. a) Give in brief the evolution of advanced microprocessors.
- b) Explain the application of microprocessor.

OR

2. a) Specify the functions of address and data bus.
- b) Distinguish between Input/Output mapped Input/Output and memory mapped Input/Output.

Unit - II

3. a) Draw the functional block diagram of 8085 microprocessor and explain.
- b) Explain register organization of 8085 and explain typical application of each register.

OR

4. a) Draw the pin diagram of 8085 and explain the functions of each pin.
- b) Explain the interrupt process in 8085.

Unit - III

5. a) Discuss the flags of 8086 microprocessor.
- b) With the help of a Schematic diagram explain how the bus AD7 – AD0 is demultiplexed.

OR

6. a) Describe the instruction format of 8086. Also describe the MOV instruction of 8086.
- b) Write a program in 8086 assembly language to count the number of positive and negative number in a given series of numbers.

Unit - IV

7. a) Explain the block diagram and operation of programmable Keyboard/Display interface.
- b) Explain various operating mode of 8253 Programmable Interval Timer.

OR

8. a) Explain with a neat diagram the operation of the 8257 DMA controller.
- b) Explain the different modes of 8255.

Unit - V

9. a) What is Micro-controller? Explain the architecture of 8051 Micro-controller.
- b) What are the various addressing modes of 8051?

OR

10. a) Give an overview of 8051 instruction set
- b) Discuss the register set and flags of 8051 Microcontroller.