Roll No ....

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

Time : Three Hours

Max. Marks : 70

Note: i)   Attempt all Questions.

     ii)   All questions carry equal marks.

UNIT-I

1. a) What is tristate logic? Why is it needed in a microprocessor system?   7

   b) What is a microprocessor? Explain the basic fundamental blocks of a microprocessor.   7

Or

2. a) How is the READY signal used in a microprocessor system?   7

   b) What is HOLD and HLDA? How is it used?   7

UNIT-II

3. a) What factors should you consider to estimate the interrupt response time in 8085 microprocessor?   7

   b) Discuss the various types of addressing modes available in 8085 with an example of each.   7

Or

4. a) Explain the difference between the conditional and unconditional return instruction in 8085?   7

   b) i) How are slow peripherals interfaced with an 8085 Microprocessor?   3.5

     ii) What is the difference between wait state and bus idle condition?   3.5

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UNIT-III

5. a) Explain the architecture of the microprocessor 8086.   7

   b) Discuss in detail the segmentation of memory in 8086. What are its advantages in 8086?   7

Or

6. a) Write an Assembly language program to find the largest word from the 100 words present in the memory from address 76000h and store the result in register BX.   7

   b) Explain the following instructions of the microprocessor 8086:   7

     i) PUSH F   ii) AAA

     iii) IDIV BYTE PTR [BX]   iv) REPNZ

     v) SHL DX, 1   vi) LODSB

UNIT-IV

7. a) Draw the interfacing diagram of the 8086 microprocessor in the maximum mode configuration?   7

   b) Draw the architecture of the 8259 and explain the facilities available.   7

Or

8. a) Explain with a neat diagram the operation of the 8257 DMA controller.   7

   b) Explain the following terms in relation to the 8279 programmable keyboard and display controller.   7

UNIT-V

9. a) Draw the architecture of 8051 microcontroller? List the features of 8051 microcontroller.   7

   b) What are the operating modes of serial port of an 8051?   7

Or

10. a) Discuss briefly the interrupt of an 8051 microcontroller.   7

   b) Write down the various applications of microcontrollers.   7

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