## Microprocessor & Assembly language programming (CSE-208, Dec-2005)

**Note:** Section A is compulsory. Attempt any four questions from Section-B and any two from Section-C.

## Section-A

- 1. a) Synchronous buses are faster or asynchronous buses. Explain with reasons.
  - b) What is an instruction cycle? Explain.
  - c) Explain the function of following 8085µP instructions with examples (i) SHLD (ii) LDAX
  - d) Explain the function of instruction queue in 8086 microprocessor.
  - e) What are vectored interrupts? Explain with suitable example.
  - f) List the important features of Motorola 68000 microprocessors.
  - g) Explain the STACK operation in 8085 microprocessor.
  - h) What is an Emulator? Explain its uses in the system design.
  - i) Discuss the function of following signals of 8085.
    - (i) HOLD (ii) HLDA
  - j) Discuss fetch and execute operation.

## Section-B

- 2. What are various status flags provided in 8085? Discuss their role.
- 3. What is DMA data transfer scheme? Discuss the function of DMA data controller 8257.
- 4. Write an assembly language program for 8-bit multiplication, product being 0f 16 bits.
- 5. Describe in flow chart the interfacing of 8085 microprocessor with matrix keyboard and also write the assembly language program to implement the function.
- 6. What is PROM programming? Explain with suitable examples.

## **Section-C**

- 7. Describe interfacing of 7 segment display with its decoder / driver to an 8085 microprocessor. Can alphabets be displayed by this scheme?
- 8. (a) Write an assembly language program using 8085 microprocessor instruction set to arrange N numbers in ascending order.
  - (b) What are single chip micro-computers? Explain with example.
- 9. (a) write an assembly language program to interface 8085 microprocessor with stepper motor.
  - (b) What are different addressing modes of 8085? Explain with examples.

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