SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL NO : [_____]   Total number of pages 2

Total number of questions: 09

B-Tech. CSE/ 4h Sem

Microprocessor and Assembly Language Programming

Subject Code: BTCS-404A| 104   (RG|RP)

Paper ID: __M|)8__

2011 batch onwards.

Time allowed: 3 Hrs   Max Marks: 60

Important Instructions:

- All Questions are compulsory
- Assume any missing data

Part-A (10x2 marks)

Q1) Answer in brief:

(a) How many address lines are necessary to address eight mega bytes of memory?

(b) Explain the purpose of status signals in 8085 µP?

(c) What is the use of ALE signal in 8085 µP?

(d) Differentiate between Data bus and Address bus?

(e) Describe briefly Instruction Format of 8085 µP?

(f) Start: MOV A,5FH

              CMA

              XRA A

JZ: Start   what will be the result of this Program?

(g) What are functions of SID and SOD signals in 8085 µP?

(h) Explain the functions of following instructions?

    a) STAX 3000H

    b) LDAX 3000H

(i) Differentiae between Synchronous and Asynchronous Bus?

(j) Describe Pentium Processors?

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Part-B (5x8 marks)

Q2) Draw and explain a Pin Diagram of 8085 µP in detail? (CO1)

OR

Explain different classification and applications of recent microprocessors?
(CO1)

Q3) Explain various addressing modes used in 8086 µP with examples? (CO2)

OR

What is the use of Interrupt? Differentiate between mask able interrupt and Non mask able Interrupt? (CO2)

Q4) Write a assembly language program to add two16 bit numbers?

OR (CO3)

Explain the functions of following data transfer instructions with examples?
(CO3)

- a) LHLD.
- b) RAL & RAR
- c) ADI & SBB
- d) INX & CMA

Q5) What is the difference between Serial interface and Parallel interface? Explain 8251 I/O processor in detail?? (CO4)

OR

Explain 8255 programmable peripheral interface in detail? (CO4)

Q6) Draw a traffic light system with 8085 µP with example in detail? (CO5)

OR

Explain the architecture of 8086 microprocessor? (CO5)

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