BE SEM IV/CBGS/ETRX/ MICROPROCENSOR and peripherals QP Code: 5398 04/12/15 QP Code : 5398 (3 Hours) **ITotal Marks: 80** N.B.: 1. Question no. 1 is compulsory 2. Solve any three from the remaining five questions. 3. Assume suitable additional data if necessary. Explain interrupts of 8085 5 Compare min-mode with max-mode of 8086. 5 Write an 8086 assembly language program to divide 16 bit number by 4 bit number Explain System bus arbitration in Loosely Coupled System

Q2 a)

Q1

a)

b)

c)

ď)

- b)
- c)
- Q3 a) b)

Design 8086 based system for following specifications: 8086 operating at 3 MHz; 6KByte of EPROM, 3KByte of ROM; 2 i/o ports. Explain interrupt acknowledge (INTA) cycle of 8086 Explain parameter passing methods. Q4 a) b) bit number What is instruction pipelining? Give advantages and challenges associated with it. **c)** 5

Q5 a) Explain interfacing of 8259 with 8086 (Cascade mode) b) Explain Closely Coupled System (CCS)

Write short notes on assembler directives c)

Q6 a) Give applications of interrupts. Explain interrupts of 8086 7 Explain low-speed (slow) peripheral (memory) interface with 8086 with wait states b) 7 with the help of timing diagram.

Explain 8087 math co-processor and its usages c)

HANDLOGT, ANDHERINN

MD-Con. 9924-15.

6

10

5

5