

# C.U.SHAH UNIVERSITY

## Summer Examination-2020

Subject Name : Advanced Micro-Processors

Subject Code : 4TE05AMP1

Branch: B.Tech (CE)

Semester : 5

Date : 04/03/2020

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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**Q-1 Attempt the following questions:**

**(14)**

- a) Define : Embedded system.
- b) What is non maskable interrupt?
- c) In which mode 80386 support memory management and protection mechanism?  
A. Direct mode B. indirect mode  
C. Protected mode D. Real mode
- d) The 16 bit flag of 8086 microprocessor is responsible to indicate \_\_\_\_\_.  
A. the condition of result of ALU operation B. the condition of memory  
C. the result of addition D. the result of subtraction
- e) Which group of instructions does not affect the flags?  
A. Arithmetic operations B. Logic operations  
C. Data transfer operations D. Branch operations
- f) STA 2000 instruction is how many byte of instruction?  
A) 4  
B) 2  
C) 1  
D) 3
- g) Define: Microprocessor.
- h) The \_\_\_\_\_ translates a byte from one code to another code.  
A. XLAT B. XCHG C. POP D. PUSH
- i) How many bits the instruction pointer is wide?: A) 16 B) 8 C) 32 D) 64
- j) Define : Micro-controller.
- k) Define : Assembler.
- l) What is Instruction Queue?
- m) True/False: 8085 has 8 byte instruction queue.
- n) The CF is known as \_\_\_\_\_.  
A) carry flag B) condition flag C) common flag D) single flag.



**Attempt any four questions from Q-2 to Q-8**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain various addressing mode of 8086 MP.	<b>07</b>
<b>B</b>	Draw pin diagram of 8085 MP and explain Interrupt related pins.	<b>07</b>
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain Demultiplexing process of AD7- AD0 bus system in 8085 MP.	<b>07</b>
<b>B</b>	Explain different types of instruction of 8085 MP	<b>07</b>
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Draw and Explain Architecture of 8086 MP.	<b>07</b>
<b>B</b>	Write short note on Descriptor table.	<b>07</b>
<b>Q-5</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Differentiate between 16 bit and 32 bit Microprocessors.	<b>07</b>
<b>B</b>	Explain different types of interrupt available in 8086 MP.	<b>07</b>
<b>Q-6</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	What is addressing mode? Explain various addressing mode in 8086 MP.	<b>07</b>
<b>B</b>	Enlist and explain features of Pentium PRO processor.	<b>07</b>
<b>Q-7</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain Real Address Mode and Protected Virtual Address Mode of 80386 MP.	<b>07</b>
<b>B</b>	Write short note on Memory bank.	<b>07</b>
<b>Q-8</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain pin functions of 80286 MP.	<b>07</b>
<b>B</b>	What is memory? Explain different classification of memory.	<b>07</b>

