

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Advanced Micro-Processors

Subject Code : 4TE05AMP1

Branch: B.Tech (CE)

Semester : 5

Date : 25/11/2022

Time : 02:30 To 05:30

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) AC is known as_____
- b) What is instruction pointer?
- c) How many bytes of instruction STA 2000?
- d) Explain instruction : LHL D
- e) True/False: Data transfer groups of instructions does not affect the flag.
- f) Which is non maskable in 8085 processor?
- g) The Intel 8086 microprocessor is a _____ bit processor.
- h) Define : Assembler Directive
- i) What is the size of each segment in 8086?
- j) What is pipelining?
- k) Explain assembler directive : DW
- l) How physical address (PA) is calculated in 8086?
- m) Does 80386 processor supports the protection mechanism? Yes/No
- n) What is used of barrel shifter in 80386 processor?

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

Q-2 Attempt all questions (14)

- A** What is addressing modes? Explain various addressing modes of 8085 microprocessor. **07**
- B** Draw and explain flag register of 8085. **07**

Q-3 Attempt all questions (14)

- A** Draw the internal architecture of 8085 microprocessor. **07**
- B** Explain instructions (with example) of 8085 microprocessor: LDA, ANI, CMP **07**



Q-4	Attempt all questions	(14)
A	What is memory bank? Explain 8086 memory banking with diagram.	07
B	Draw pin diagram of 8086 microprocessor. Explain maximum mode related pins.	07
Q-5	Attempt all questions	(14)
A	Draw and explain internal architecture of 8086 microprocessor.	07
B	Explain address and data demultiplexing in 8086 processor	07
Q-6	Attempt all questions	(14)
A	Write ALP to mask the lower 4 bit of the content given by memory location 2000 H	07
B	Write ALP to subtract two 32 bit numbers in 8086 microprocessor.	07
Q-7	Attempt all questions	(14)
A	Explain LDT and GDT	07
B	Explain block diagram of 80386 microprocessor.	07
Q-8	Attempt all questions	(14)
A	Explain the features of Pentium MMX and Core to Duo processor.	07
B	Compare RISC with CISC.	07

