Enrollment No:	Exam Seat No:

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Advanced Micro-Processors

Subject Code: 4TE05AMP1 Branch: B.Tech (CE)

Semester: 5 Date: 30/03/2017 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

	Attempt the following questions:	
a)	Define : Assembler.	
b)	Define: Embedded system.	
c)	Define: Micro-controller.	
d)	True/False: 4004 is the first microprocessor built by the Intel Corporation.	
e)	True/False: 8085 has 6 byte instruction queue.	
f)	The OF is called as	
	A. overflow flag B. overdue flag C. one flag D. over flag	
g)	STA 2005 instruction is how many byte of instruction?	
	A) 4	
	B) 2	
	C) 1	
	D) 3	
h)	Intel 8086 microprocessor is a processor.	
	A) 4 bit B) 32 bit	
	C) 8 bit D) 16 bit	
i)	The CF is known as	
	A) carry flag B) condition flag C) common flag D) single flag	
j)	The contains an offset instead of actual address	
	A) SPB) IPC) ESD) SS	
k)	The translates a byte from one code to another code.	
•	A. XLAT B. XCHNG C. POP D. PUSH	
l)	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	
m)	Which group of instructions does not affect the flags?	
	A. Arithmetic operations B. Logic operations	
>	C. Data transfer operations D. Branch operations	
n)	INC destination increments the content of destination by	
	A. 1 B. 2 C. 30 D. 41	



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

Q-2		Attempt all questions	(14)
	(a)	Draw and Explain Architecture of 8086 MP.	
	(b)	Draw and Explain Memory Bank System of 8086 MP.	
Q-3		Attempt all questions	(14)
	(a)	Explain pin diagram of 8085 MP.	
	(b)	Explain Demultiplexing process of AD7- AD0 bus system in 8085 MP.	
Q-4		Attempt all questions	(14)
_	(a)	Explain pin functions of 80286 MP.	
	(b)	Draw Register set of 80386 processor and explain Flag register.	
Q-5		Attempt all questions	(14)
	(a)	What is memory? Explain different classification of memory.	()
	(b)	Enlist and explain features of Pentium PRO processor.	
Q-6		Attempt all questions	
	(a)	Draw and Explain general segment descriptor format for x86 family processors. (80386 & 80486)	(07)
	(b)	Differentiate between 16 bit and 32 bit Microprocessors.	(05)
	(c)	Differentiate Vector and Non-Vector interrupt.	(02)
Q-7		Attempt all questions	(14)
_	(a)	What is addressing mode? Explain various addressing mode in 8086 MP.	` ,
	(b)	Explain different types of interrupt available in 8086 MP.	
Q-8		Attempt all questions	
-	(a)	Explain Real Address Mode and Protected Virtual Address Mode of 80386 MP.	(07)
	(b)	Explain following instruction with example: RET, DAA, LDA, and LXI.	(04)
	(c)	Enlist the data types supported by 80286 MP.	(03)

