Seat No.:	Enrolment No
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## GUJARAT TECHNOLOGICAL UNIVERSITY BE- VI<sup>th</sup> SEMESTER-EXAMINATION - MAY- 2012

Subject code: 160805 Subject Name: Advanced Microprocessors Fime: 10:30 am – 01:00 pm			Date: 19/05/2012  Total Marks: 70	
		<u>-</u>		
1. 2.	Atte Mak	ons: mpt all questions. te suitable assumptions wherever necessary. tres to the right indicate full marks.		
Q.1	(a) (b)	Write down difference between 8085 Microprocessor & 8086 Microprocessor. Explain minimum mode configuration of 8086 Microprocessor.	07 07	
Q.2	(a) (b)	Explain the internal architecture of 8086 microprocessor.  Write different addressing modes of 8086 microprocessor & explain any of three in detail.	07 07	
	<i>a</i> >	OR	0=	
	<b>(b)</b>	Show and explain the activities on 8086 buses during simple read and write operation.	07	
Q.3	(a)	Draw the interrupt pointer table of 8086 microprocessor & explain type-0 and type-2 interrupt in detail.	07	
	<b>(b)</b>	Define the following assembler directives (i) EQU (ii) DW (iii)ENDP (iv)EXTRN (v)ENDS (vi)ASSUME (vii)DD OR	07	
Q.3	(a)	Define the following instructions of 8086 microprocessor (i)CBW (ii)CLD (iii)DAA (iv)CMPSB (v)IDIV (vi)JNA (vii)LEA	07	
	<b>(b)</b>	Explain loosely coupled multiprocessor system.	07	
Q.4	(a)	Write a program that square any number from 00 to FFh placed in AL and place the answer in AX.	07	
	<b>(b)</b>	Write a program to sort all the bytes from 0000 to 000Fh in ascending order.  OR	07	
Q.4	(a)	Write a program and draw a flow chart to find the number A3h which is located somewhere in memory between DS:1000h and DS:1400h. find the first offset address that contains A3h and put the offset address in register BX.	07	
	<b>(b)</b>	Write a following programs.  (i) Store the number 1234h in absolute memory address 60000h.  (ii) Interchange the content of DI and SI	07	
Q.5	(a)	Explain interfacing of 8086 microprocessor with co-processor.	07	
	<b>(b)</b>	Briefly describe Macros.	07	
0.5	(a)	OR Explain closely coupled multiprocessor system.	07	
Q.5	(a) (b)	(i)Describe the type-3 and type-4 interrupt.	07	
	(U)	(ii)Write down difference between 8086 microprocessor &	U/	
		8088 microprocessor.		