C AN	T 1 . AT
Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VI EXAMINATION - WINTER 2015

Subject Name: Advanced Microprocessors			
		:30pm to 5:00pm Total Marks: 70	
	1. 2.	Attempt all questions.	
Q.1	(a) (b)	Explain Comparison of 8085 and 8086 microprocessor. Explain following concept in detail. 1. Pipelining 2. Memory segmentation	07 07
Q.2	(a) (b)	Draw and explain the flag register structure if 8086. Explain the following pointer and index register of 8086. 1. SP 2. BP 3. SI 4. DI	07 07
	(b)	OR Explain the following Pins of 8086. 1. HLDA 2. NMI 3. ALE 4. (INTA)' 5. READY	07
Q.3	(a)(b)	Explain the following instructions of 8086 with example. 1. PUSH 2. LEA 3. ADC 4. IMUL 5. SAR Explain the rules for segmentation of 8086.	07
Q.3	(a) (b)	OR Explain the following assembler directives of 8086. 1. DQ 2. END 3. ORG 4. EQU 5. PTR Draw and explain the block diagram of 8284.	
Q.4	(a) (b)	Write a program that square any number from 00 to FFh placed in AL and Place the answer in AX. Give difference between BIU and EU. OR	07
Q.4	(a) (b)	Write ALP to find average of ten 16-bit numbers. Define Addressing modes and explain its classification of 8086 in detail.	07 07
Q.5	(a)	Write an 8086 ALP to generate a delay of 100 msec, if 8086 system frequency is 10 MHz.	07
	(b)	Explain MACRO in detail with format and example. OR	07
Q.5	(a) (b)	Write ALP to find maximum number from given array. Explain 8086 interrupt structure.	07 07
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