GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–VI (OLD) - EXAMINATION – SUMMER 2017			
Subject Code: 160805Date: 01/05/2			17
Subject Name: Advanced MicroprocessorsTotal Marks: 70Time: 10:30 AM to 01:00 PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Explain Internal Architecture of 8086 Microprocessor. Briefly Describe Macros.	07 07
Q.2	(a) (b)	Briefly describe memory bank of 8086 Microprocessor. Explain following Pins of 8086 Microprocessor 1. READY 2. INTR 3. HLDA 4. DT/R' OR	07 07
	(b)	Explain Flag register of 8086 Microprocessor.	07
Q.3	(a) (b)	Describe different addressing modes of 8086 Microprocessor. Explain following instructions of 8086 Microprocessor. 1. CMC 2. DAD 3. IRET 4. JAE OR	07 07
Q.3	(a) (b)	Explain Processor control Instructions of 8086 Microprocessor with example. What is Multiprocessing system? Write applications of Multiprocessing system.	07 07
Q.4	(a) (b)	 Explain memory interfacing of 8086 Microprocessor. Explain following assembler directives in detail 1. DUP 2. END 3.OFFSET 4. PTR OR 	07 07
Q.4	(a)	Draw and Interrupt pointer table of 8086 microprocessor and explain type-0 and Type-2 interrupts in detail.	07
	(b)	Explain following concept in detail 1. Memory Segmentation 2. Pipelining	07
Q.5	(a) (b)	Write ALP for addition of two random numbers by using MACRO Write a program that square any number from 00H to FFH placed in AL and placed it in AX.	07 07
Q.5	(a) (b)	Write ALP to find maximum number from given array. Write a program to transfer the block of data from one memory location(02345H to 0234AH) to another memory locations(04567H to 0456CH).	07 07
