Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Sub	ject	Code: 160805 Date: 26-05-2014	
Sub	ject [Name: Advance Microprocessor	
Tim	e: 1(0:30 am - 01:00 pm Total Marks: 70	
Instr	uctior	ns:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Draw and explain pin diagram of 8086 microprocessor.	07
	(b)	Explain following assembler directives with example	07
	()	PROC, OFFSET, PTR, LABEL, EQU, ASSUME, END.	
Q.2	(a)	Explain Addressing modes of 8086 microprocessor.	07
	(b)	Draw and explain Internal Architecture of 8086 microprocessor.	07
		OR	
	(b)	Explain processor control instructions with examples.	07
Q.3	(a)	Give difference between BIU and EU	07
	(b)	Explain clock generator Intel 8284.	07
		OR	
Q.3	(a)	Write short notes on segment registers.	07
	(b)	Explain following instructions with example.	07
		LDS,PUSHF,INS,OUTS,SCAS,INTO,NEG	
Q.4	(a)	Explain Flag Registers of 8086 microprocessor.	07
	(b)	Explain 8086 Bus Activities During a Read machine cycle. OR	07
Q.4	(a)	What is an interrupt? Explain Various types of interrupt.	07
	(b)	Write a program to transfer block data from one memory location (01234H-0123DH) to another location (04321H-0432AH).	07
Q.5	(a)	Write a program to store first 100 even numbers in memory location from 0000H-0063H, find the summation of stored numbers and store sum in memory location 00064H.	07
	(b)	Explain interfacing of I/O devices to the processor	07
	(10)	OR	U I
Q.5	(a) (b)	What is coprocessors? Give Applications of coprocessor with example. Write short notes on multiprocessing system.	07 07
