Subject Code: 160805

Subject Name: Advance Microprocessor

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - WINTER • 2014

Date: 03-12-2014

Time: 02:30 pm - 05:00 pm Total Marks Instructions:			
ms	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain Addressing modes of 8086 microprocessor. Explain the internal architecture of 8086 microprocessor.	07 07
Q.2	(a) (b)	Briefly describe memory bank of 8086 Microprocessor. Describe the following assembler directive (i) END (ii) EVEN (iii) EQU (iv) DB (v) ORG OR	07 07
	(b)	Explain following instruction of 8086 with example. XLAT,LEA,SAHF,CBW,MOVSB,LOOP,SCASB	07
Q.3	(a) (b)	Write a program to transfer block data from one memory location to another memory location. (With and without Overlapping). Write a program to find the average of five numbers which are stored in	07 07
		memory. OR	
Q.3	(a) (b)	Write a program to sort all the bytes from 0000 to 000Fh in ascending order. Explain string instructions of 8086 microprocessor in detail.	07 07
Q.4	(a)	Describe interrupt priority table also write details of type-0, type-1 & type-2 interrupt of 8086 Microprocessor.	07
	(b)	Write a program to find the average of five numbers which are stored in memory.	07
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Q.4	(a) (b)	Explain Maximum Mode of 8086 microprocessor. What is MACRO? How it differs from Procedure? Explain use of macro with one simple program.	07 07
Q.5	(a)	What is the Multiprocessing System? Write Applications of Multiprocessing system.	07
	(b)	Explain interfacing of I/O devices to the processor.	07
o -		OR	^-
Q.5	(a)	What is the Coprocessor? Write an application of coprocessor and explain in math processor in brief.	07
	(b)	What is MACRO? How it differs from Procedure? Explain use of macro with one simple program.	07
