GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI(OLD) • EXAMINATION – WINTER 2017

Subject Code:160805   **Date: 08/11/2017**

Subject Name: Advance Microprocessor

Time:02.30 PM TO 05.00 PM   **Total Marks: 70**

Instructions:
1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain BIU (Bus Interface Unit) & EU (Execution Unit) of 8086 in details	**07**
	(b)	Explain interfacing of 8086 microprocessor with co-processor.	**07**
Q.2	**(a)**	Describe different addressing modes of 8086 Microprocessor with example.	**07**
	(b)	Explain variable, suffix & operators in brief.	**07**
		OR	
	(b)	Explain concept of pipelining and its advantages of 8086.	**07**
Q.3	**(a)**	Explain the following Assembler directives of 8086 Microprocessor. EQU, DW, ENDP, EXTRN, ENDS, ASSUME, EVEN	**07**
	(b)	What is MACRO? How it differs from Procedure? Explain use of macro with one simple program.	**07**
		OR	
Q.3	**(a)**	Describe the following instruction of 8086 Microprocessor. LAHF,XLAT,AAA,ROL,DAA,BTC,IN	**07**
	(b)	What is the Multiprocessing System? Write Applications of Multiprocessing system.	**07**
Q.4	**(a)**	Write a program to add a profit factor to each element in the cost array & put the result in a prices array, where profit factor is 15h & cost =10h, 12h, 23h , 40h.	**07**
	(b)	Describe Memory mapped I/O and Direct I/O. Give the main advantage and disadvantage of each.	**07**
		OR	
Q.4	**(a)**	Write a program to find out the number is even or odd from given series of numbers.	**07**
	(b)	Explain the Rules & Advantages for memory segmentation.	**07**
Q.5	**(a)**	Explain internal interrupt of 8086.	**07**
	(b)	Explain typical configuration of 8086 Microprocessor Minimum mode.	**07**
		OR	
Q.5	**(a)**	Explain BIOS routines.	**07**
	(b)	Write down the difference between 8085 & 8086.	**07**

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