Q.P.Code: 016749

(REVISED COURSE)

		(5 Hours) [Total Warks: 80	100
Note	e: 1)	Q.1 is compulsory	
	2)	Answer any 3 out of remaining questions	10
Q. 1	(A)	Explain the function of HOLD, HLDA , ALE, and ADO-AD7 pins of processor 8085.	(5)
	(B)	Write features of 80286 microprocessor.	(5)
	(C)	Explain memory segmentation of 8086.	(5)
	(D)	Write control word of 8255 to initialize port A as input port, port B and C as	
		output port, group A and B in mode 0	(5)
Q.2	a) W	/hat are different types of interrupt supported by 8086 and explain IVT.	(10)
	b) St	tate purpose of interfacing 8259(PIC) to 8086. Explain interfacing of	
	8	3086(minimum mode) and 8259(single mode)	(10)
Q.3	a)	Draw and explain the interfacing of Math co-processor with 8086.	(10)
	b) E	xplain Minimum mode of 8086 microprocessor. Draw timing diagram for Read	
	C	peration in Minimum mode.	(10)
Q. 4	a)	Design an 8086 based system with following specifications.	(10)
		8086 CPU working at 8MHz	
	i. ii.	32 KB EPROM using 16K device 32 KB SRAM using 16K device	
200	8.5	Explain different modes of operation of 8257 DMA controller.	(10)
Q.5	a) \	Write a programme to set up 8253 as square wave generator with 1 ms period	
		if input frequency of 8253 is 1 Mz	(10)
	b)	Explain in detail strobed input output mode of 8255.	(10)
Q.6	1	Write a program for 8086 to find out the maximum number from an array of 0 numbers.	(10)
1	b) l	Draw and explain interfacing of DAC 0808 with 8086 Microprocessor using 8255.	
	V	/rite a program to generate the square wave.	(10)