TE (comp) V Micopuresson

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	(3 Hours)	[Total Marks: 100	
	(i) Question No. 1 is compulsory. (2) Solve any four questions out of the remaining six questions		
1. (a)	Explain the memory segmentation in Intel 8086 processor with its disadvantages.	advantages and 10	ļ
(b)	Explain interrupts of Intel 8086 microprocessor.	10	ļ
2. (a)	Design an 8086 based system with following specification:— (i) 8086 working at 8MHz (ii) 32 kbytes EPROM using 16kB devices (iii) 64 kbytes RAM using 32kB devices		
(b)	Draw the complete schematic of the design indicating address Explain the following Intel 8086 assembly language instructions (1) TEST (2) NOP (3) STOS (4) DAA (5)	giving example. 10	
` '	Explain the operating modes of 8255 PPI including the handshat Explain the operating modes of 8254 PIT.	king operation. 10	
` ,	Explain the modes of operation of DMA controller. What do you understand by bus arbitration? Explain the different techniques with diagram.	bus arbitration 10	
` '	Explain the 8288 bus controller block diagram. Explain its use Explain the operation of three 8259 PIC in cascaded mode.	. 10 10	
	Explain with neat diagram memory read and write machine cyc mode.		
(0)	Explain addressing modes of 8085 microprocessor with examp	le. 10	
(rite a short notes on (any four):— (a) RS-232 Serial Interface Standard (b) 8284 clock generator (c) Fixed port and Variable port addressing (d) Generation of Reset Signal in 8086 based system (e) String Instructions.	20	