## (OLD COURSE)

19/5/15

QP Code: 3786

		(3 Hours) [ Total Marks:	100
	N.	<ul> <li>B.: (1) Question I is compulsory.</li> <li>(2) Attempt any four from remaining.</li> <li>(3) Figures to the right indicate full marks.</li> </ul>	
Person 4	De	esign 8086 based microprocessor system with following specifications.  (i) 8086 microprocessor working at 10 MHz.  (ii) 32 KB of EPROM using 16 KB devices.  (ii) 64 KB of SRAM using 16 KB devices.  Draw the design and give the memory map.	20
2.	(a)	Describe different addressing modes of 8085 microprocessor with	10
	(b)	an example of each.  With neat diagram describe programmer's model of 8085 microporcessor.	10
3.	(a)	Describe with neat diagram architecture of 8086 microprocessor.	10
		What is Bus arbitration? Describe the different Bus arbitration techniques with diagram.	10
4,	(a.)	Describe with neat diagram 8255 PFI, also give the CWR.	10
	(b)	Describe with neat diagram IVT of 8086 microprocessor.	10
5.	(a.)	Write an 8086 assembly language program to transfer a block of 5-16 bit numbers from memory location 10000H to 10002H (source and destination blocks are overlapped)	10
	(b)		10
6.	(a)	(i) I/O mapped I/O and memory mapped I/O	10
	(b)	(ii) SKAM and DRAM  Describe with neat diagram memory segmentation in 8086, also give merits and demerits of segmentation.	10
7.		to short notes on (any four):-  (a) Features of 8086  (b) RESET circuit of 8086  (c) RS-232C interface (d) Concept of DMA	20
		(e) 8288 bus controller	

RJ-Con.: 9584-15.