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Reg. No.:	
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Sixth Semester B.Tech. Degree	Examination, May 2016
(2013 Scher	ne)
13.603 : MICROPROCESSORS A	ND APPLICATIONS (E)
	a de la constanta de la consta
Time: 3 Hours	1 1 1 1 1 1 1 1
PART-A	CHTUTE OF TEC.
Answer all questions.	B MHz clock. Max. Marks: 100 Republic of Technology And Technology Max. Marks: 100 Max. Max. Marks: 100 Max. Marks: 100 Max. Max. Max. Max. Max. Max. Max. Max.
1. Explain flags of 8085.	TRIVAND TO THE TANK TO THE TRIVAND
2. Write delay subroutine for 0.4 sec. Assume 3	3 MHz clock
3. Differentiate between Instruction cycle, Mach	nine cycle and T-state.
4. Explain memory segmentation in 8086.	4006 - 100 -
5. What are the modes of operation of 8255?	
PART-E	3
Answer any one full question from each Module	e de la companya de
MODULE	
a) Draw the architecture of 8085. Explain the stack pointer.	e function of program counter and
b) An array contains ten numbers. Find the 16-bit answer and store result in two con	secutive memory locations.
OR	the Allergan Aller States and the second
7. a) Explain different addressing modes of 80	85 with example.

b) Write program to rearrange an array of ten numbers in ascending order.

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MODULE-II

(5 . asgs4)

8.	a)	Draw the timing diagram of instruction LDA 6200H.	8
	b)	Draw the interrupt structure of 8085. Explain RIM instruction.	12
9.	a)	Differentiate between programmed data transfer and interrupt driven data transfer schemes.	10
(10)	b)	Design memory systems to interface 2K ROM and 4K RAM using 2K×8-bit memory chips.	10
	3 3 3	MODULE-III	
10.	a)	Explain minimum mode of operation of 8086.	10
	b)	Explain different addressing modes of 8086 with examples.	10
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11.	a)	Explain the register organization of 8086.	10
(<)		Write 8086 ALP to move 16 bytes of data starting from offset 0200H to 0300H in the segment 7000H.	10
31 - 108 		MODULE, IV	
12.	a)	Interface two 7-seg LEDs to Port A of 8255 and 8 switches to Port B. Write program to read switch positions and display at Port A.	10
	b)	Explain with diagram how DAC can be interfaced with 8085. Write program to generate ramp signal.	10
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13.	a)	Explain how matrix keyboard can be interfaced with 8086.	10
	b)	Draw the block diagram of 80486 and explain each block.	10

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