	(Pages : 2)	B - 3361
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Name:	HE STYLE WHEN YOU TO SHOW THE WAS	
Sin ligazione	B.Tech. Degree Examination, D (2013 Scheme) ROPROCESSORS AND INTERI	
Time : 3 Hours		Max. Marks: 100
peut spe <b>ed np.</b>	PART-A	onut util sellessti
Answer all questions. Eac	ch question carries 4 marks.	
Explain the following 8     a) LDAX Rp	085 microprocessor instructions b) OUT 8bit	STITUTE OF TE
<ul><li>2. Explain the following a</li><li>a) Register indirect a</li><li>b) Implicit addressing</li></ul>	085 microprocessor instructions b) OUT 8bit ddressing modes of 8085 with suitable ddressing g. er of 8086 processor.	e examples continued the state of the state
3. Explain the flag registe	er of 8086 processor.	NAOT NAOT NA
	assembly language program to find	
5. Give the control word f	ormat of 8254 chip.	
	PART-B	
Answer any one question	from <b>each</b> Module.	50 00x 30 11
	Module – I	
	g 8085 microprocessor signals ii) HOLD	chopatrionact to

iii) SOD

v) RESETIN

OR

iv) ALE

b) With suitable diagram, explain how address bus, data bus and different control

signals are generated in 8085 microprocessor based system.

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7.	a)	Explain the different registers available in 8085 microprocessor.	10
	b)	Give an interfacing circuitry to interface 2K bytes of EPROM and 1K byte of RAM to the 8085 microprocessor. Use 1 no. of 2716 EPROM chip and two numbers of 2142 RAM chip. Give the address map of your design.	10
		Module - II Consider Mineral 2016	
8.	a)	With a neat diagram, explain the architecture of 8086 processor.	12
	b)	Explain the physical memory organization in 8086 based system.	8
		OR	
9.	a)	Describe the functions of 8086 queue. How does the queue speed up processing?	
Service of the servic	b)	Draw the timing diagram of opcode fetch machine cycle of 8085     microprocessor. Explain the activities in each T state.	
	3,	Module – III	
10.	a)	Write an assembly language program to find out the number of positive and negative numbers from a given series of signed numbers.	10
190	b)	Explain the following assembler directives  i) ASSUME ii) DB iii) ENDS iv) ORG v) OFFSET	10
		At he extreme to OR built of these one againgties yet never means soon as present	
11.	a)	Write an assembly language program to find the largest number among a set of unordered bytes, stored in location starting from a known address.	10
	b)	Explain the physical address formation in different addressing modes of 8086 processor.	10
		Module – IV	
12.	a)	Draw and explain the block diagram of 8255 programmable parallel port device.	10
	b)	Give an interfacing circuit to interface 8254 chip with 8086 processor. Determine the base address for the chip, the counters and control word register.	10
		OR	
13.	a)	Draw and explain the architecture of 8237 DMA controller.	10
	b)	Explain the control word format of 8255 chip. If you want to initialize 8255 as Port A in mode $0$ – Output port, Port B as mode $1$ – Input port, port $C_{upper}$ as input port and port C bit 3 as output, give the mode set control word and BSR	
		control word.	10