		Seventh Semester B.E. Degree Examination, June-July 2009 Peripherals and Micro Controllers	
Tim	ne- 3	3 hrs. Max. Marks:	100
	16.0	Note: Answer any FIVE full questions	
1		decount	Marks)
	ъ.	Using a 3 to 8 decoder, design an absolute decoding circuit to select input device at a	Marks)
	c.	With a block diagram explain the architecture of \$155 multipurpose programmable de	Marks)
2		Explain the following with respect to 8279 keyboard – display interface: i) Keyboard modes ii) display modes. (06	Marks)
	b.		y mode
	c.	With timing diagrams explain different modes of 8254 programmable interval timer.	Marks)
3	a	iefly explain different modes of operation of 8255 programmable peripheral interface, plain how bi-directional communication can be established between two microcomputers ing 8255. (10 Marks) ith a block diagram explain the architecture of 8259 A programmable interrupt controller.	
	+	(10	, iriai ks
4	A		Marks)
	t.	write die status word format de graphitacture of \$237 DMA controller	Marks) Marks)
5	1	Explain the following with respect to 68HC11 microcontroller: The programming model. I O ports.	
		iii Interrupts. (10	Marks)
		With examples explain different addressing modes of 68HC11. (10	0 Marks)
6		Explain the following instructions of 68HC11 with examples: LDX and STX ii) DEC and INC iii) PSH and PUL	
	•		0 Marks) transfer 0 Marks)
7	•		4 Marks
	•		O LATHERY
	•	Use suck write a program to exchange the numbers in accumulators A and B. I.	Oraw the 6 Marks)

(06 Marks) (08 Marks)

(06 Marks)

Explain different subroutine parameter passing techniques.

The excessive diagrams, explain input and output port design of parallel I/O.

Water a more on 68HC11 modes.