FACULTY OF ENGINEERING
B.E. 2/4 (CSE) II – Semester (Main) Examination, June 2014

Subject : Microprocessors and Interfacing

Time : 3 hours   Max. Marks : 75

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.
PART – A (25 Marks)

1	Write four differences between microprocessors and microcontrollers.	2
2	List the addressing modes of 8085 with example for each.	3
3	Exchange the contents of PSW (ODO) and TMOD (89) using HXHG instruction.	3
4	Explain about the control word format of 8255A programmable peripheral interface in I/O mode.	3
5	Explain about the DAA instruction of 8085 microprocessor.	2
6	Explain about 8085 interrupts.	3
7	Explain about the flag register of 8086 microprocessor.	2
8	What are the advantages of using segment registers in 8086?	2
9	Explain all the rotate operations of 8051 microcontroller.	3
10	Explain about conditional return of 8085 microprocessor.	2

PART – B (50 Marks)

11	Explain about 8085 microprocessor functional block diagram.	10
12	Draw and describe the timing diagram for OUT 01 instruction.	10
13	a) Explain the programming model of 8057 microcontroller with diagram.	5
	b) Explain the internal RAM organization of 8051 with the diagram.	5
14	Explain about the programmable peripheral interface Intel 8255A with diagram.	10
15	Explain about the programmable Interrupt controller 8259A	10
16	Explain the addressing modes of 8086 microprocessor.	10
17	Write short notes on the following :	
	a) A/D converter of 8085	4
	b) Features of advanced processors	8
	c) Jump and call instructions of 8085 microprocessors	2

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