YENISI - I : SUMMER - 2016

Subject : Computer Organization and Architecture

Day : Friday		day SDF	Time: 10.00 A.M. TO 1.00 P		M.
Dat	e: 03	S.D.E. 30387	Max Marks: 80	Total Page	s:1
N.B.:	1) 2) 3)	Attempt ANY FIVE questions from section from section-II. Figures to the RIGHT indicate full marks. Answers to both the sections must be writte	•	-	tions
	-	SECTION-I			
Q.1		t are the different types of flip flops? Explain as with working and truth table.	ny two different type	es of flip –	(10)
Q.2	Explain the IEEE- 754 standard for the representation of floating- point numbers.				(10)
Q.3	Explain the architecture of Intel 8085 microprocessor in brief.				(10)
Q.4	a) Differentiate between hardwired control and micro programmed control unit.				(05)
	b) Differentiate between CISC and RISC architecture.				(05)
Q.5	Explain various units in the memory hierarchy with suitable block diagram. Compare the performance of the unit's w.r.t speed, capacity, reliability, bit density and cost.				(10)
Q.6	What are the different types of registers found in the microprocessor architecture? Explain this w.r.t suitable microprocessor of your choice.				(10)
Q.7	Write a) b) c)	e short notes on(ANY TWO) Multiplexers Division Algorithm Register Transfer			(10)
		SECTION-II			
Q.8	a) i) ii)	Convert the following floating-point number precision IEEE-754 formats: 35.869 0.003957	pers into single an	d double	(08)
	b)	Write an assembly language program to dimonitor.	isplay A to Z char	acters on	(07)
Q.9	Explain the following 8085 instructions with suitable examples: 1) RLC 2) DAA 3) PCHL 4) JPO 5) ADC				(1.5)
Q.10	i) ii)	replify following using K- map. F (A, B, C, D) = \sum (3, 7, 11, 13, 14, 15) F (A, B, C, D) = \sum (0, 1, 2, 4, 5, 7, 11, 15) F (A, B, C, D) = \sum (0, 2, 4, 5, 6, 7, 8, 10, 13, 1	5)		(15)