Registration No:															
Total Number of Pages:				210			210			210			210	M.TECH P1CSBC03	
		1'	St Sem	ester vance	d C		uter	Arc				17			
210		210		210	Tin Vla x	ne: 3 Ma	8∘Ho rks	urs : 10	0	210			210	210	
Q.CODE: Y843 Answer Question No.1 which is compulsory and any FOUR from the rest. The figures in the right hand margin indicate marks.															
Q1	a) b) c) d) e) f) g) h)	common case faster. Show the relationship of CPI with the performance of a computer. What is the importance of MFLOP over MIPS in computer designing. What are the addressing modes used in JUMP and ADD R1,R2,R3? State the difference between big and little endian representation. Derive the expression of throughput of a pipelined computer. Differentiate between WAW and WAR hazard with examples of each.								(2 x 10)	(2 x 10) ²¹⁰				
210	j)	accesses. Map NUMA with their jus	and Ul	MA cor									•	210	
Q2	a) b)	Suppose that faster than to What is the Describe Fly	he origir overall s	e consi nal mad speed u	chine up ga	but is ined	enha s only by in	y usa corpo	ble 4 ratin	that r	of the	time.	es	(10) (10)	
Q3 210	a) b)	What do y instruction s example fro Discuss one an example.	set with m each. e technic	respe	ct to	oper	ation	s an	d ac	ddres	sing	fields	with	(10) 210 (10)	
Q4	a) b)	Describe dif Explain two		•						ples.				(10) (10)	
Q5	a) b)	Write 5 cach Suppose the first level of the miss pe	at in 10 cache	00 me and 20	mory miss	refer ses ir	rence n the	es the 2 nd I	ere a evel	of ca	0 mis ache.	Assu	ming	(10) (10)	

hit time of L2 cache is 10 clock cycles, the hit time of L1 is 1 clock cycle

and there are 1.5 memory references per instruction, calculate average memory access time.

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C	Q6∘ a) b)	Write the use of scheme. Describe the technology					(10) 210 (10)			
C	Q7 a) b)	Tomasulo's appro Synchronous Vs A	hronous Vs Asynchronous Pipelining.							
	210 C)	RISC architecture	- 210	210	210	210	210			
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