ME-I Sem- Comp Parallel Computer Architecture

4/12/07

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Con. 5148-07.			muadda.co	m	\bigcirc	BB-7518	
			(3 Hours)			[Total Marks : 100	
N.B. (1) Question No. 1 is compulsory. (2) Attempt any four questions out of the remaining six questions.							
1.	(a) (b)	Explain cube inte Discuss Data flo	erconnection network ar w machine architecture	nd Barrel s s. State r	shifter with major desi	n example for SIMD. gn issues with it.	10 10
2.	(a) (b)	Discuss different Discuss different	vector optimization me architectural classificat	thods. ion schem	nes of para	allel computers.	10 10
3.	(a) (b)	What is multicache coherence problem? Discuss the solution for it. Write note on conditional critical sections and monitors.					10 10
4.	(a) (b)	Discuss classification How is the "detect	ation of pipeline proces ion of parallelism in progr	sor. ram" carrie	muadda d out in mu		10 10
5.	(a) (b)	What are the different associative memory organisation? Discuss in detail parallel language features for vector processing with example.					10 10
6.	(a) (b)	Explain the operation of cache memories. Discuss design aspects of cache memories Discuss various instruction prefetch and branch control strategies with their effect on performance of pipeline processor.					10 10
7.			and I/o channels of multiprocessors ope	rating sys	tem		20

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