B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

00954

Term-End Examination June, 2014

BICS-025 : ADVANCED COMPUTER ARCHITECTURE

Time: 3 hours		Maximum Marl	Maximum Marks: 70	
Note: Answer any seven questions.				
1.	Define parallel processing ways of classification of according to Flynn's classif	f parallel processin		
2.	Explain instruction pipe difficulties that may pr pipeline from operating at	event the instructio		
3.	Explain with example the to show how successive utilized.			
4.	Briefly explain the various and branch-control strapipelined instruction units	ategies for designin		
5.	Explain SIMD computed diagram.	er organisation wit	h <i>10</i>	
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6.	Describe Mesh-connected and Cube-connected networks in interconnected networks.	10
7.	What is the motivation for developing SIMD array processor ? Explain parallel sorting algorithm on array processor.	10
8.	What is the principal characteristics of a multiprocessor system and how is it achieved? Explain time shared or common bus interconnection network.	10
9.	Differentiate between control flow and data flow computers. Explain the data flow graph for data flow computers.	
10.	Write short notes on : $5 \times 2 = 6$ (a) Static data flow computers.	=16

- (b) Systolic array architecture.