## Parallel and Distributed Systems Q.P. Code: 25653

Duration: 3 Hours [Total Marks -80]

N.B.	(i)	0.	No.	1 is	compu	ılsorv

(ii) Attempt any three questions out of the remaining five questions

			100		
1	(a)	How Pipeline Architecture is different from Array Processor architecture	05		
	(b)	Explain the various types of Parallel Programming Models?	05		
	(c)	Explain a method of Dynamic Instruction scheduling for minimizing hazards.	05		
	(d)	Explain Dataflow Computer with examples.	05		
2	(a)	Explain different types of pipeline Hazards and the techniques used to eliminate those hazards.	10		
	(b)	Describe Architectural Model of Distributed System with neat diagram.	10		
3	(a)	Discuss in detail the various performance metrics in parallel computing.	10		
	(b)	Explain Lamport's Distributed Mutual Algorithm.	10		
4	(a)	Explain Matrix Multiplication on SIMD.	10		
	(b)	Discuss File caching for Distributed Algorithm.	10		
5	(a)	Compare and contrast Task Assignment, Load Balancing and Load Sharing approaches			
	(b)	Explain call Semantics of RPC.	10		
6	(a)	Describe any one Election algorithm in detail with an example.	10		
	(b)	Explain File Accessing Models.	10		
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