[M19 IT 1107]

I M. Tech I Semester (R19) Regular Examinations
PARALLEL COMPUTER ARCHITECTURE
Department of Information Technology
MODEL QUESTION PAPER

TIME: 3 Hrs.   **Max. Marks: 75 M**

Answer **ONE Question** from **EACH UNIT**
All questions carry equal marks
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			CO	KL	M
		UNIT - I			
1.	a).	Distinguish parallel computing with example.	1	4	8
	b).	Analyze one parallel algorithm with examples.	1	4	7
		OR			
2.	a).	Classify search operation in a sorted sequence?	1	4	8
	b).	Distinguish Quantitative Principles of Computer Design	1	4	7
		UNIT - II			
3.	a).	Identify Basic Compiler Techniques for Exposing ILP	2	4	7
	b).	Develop an algorithm to compute the total of n numbers.	1	3	8
		OR			
4.	a).	Compare Mesh transpose and shuffle transpose.	1	4	7
	b).	Develop algorithm for Mesh matrix multiplication.	1	3	8
		UNIT - III			
5.	a).	Develop algorithm for linear array multiplication	2	3	8
	b).	Classify system of linear equations in a parallel way?	2	4	7
		OR			
6.	a).	Analyze algorithm for finding the roots of non-linear equations.	2	4	8
	b).	List t limitations of ILP	2	4	7
		UNIT - IV			
7.	a).	Identify how to compute the connectivity matrix in a graph?	3	3	8
	b).	Develop an algorithm to find all pairs shortest paths of a graph.	3	3	7
		OR			
8.	a).	Classify MIMD alpha beta algorithm.	3	4	7
	b).	List t Ten Advanced Optimizations of Cache Performance	3	4	8
		UNIT - V			
9.	a).	Identify real fault and failures in storage system	3	3	7
	b).	Distinguish Internet archive cluster	3	4	8
		OR			
10.	a).	Classify INTEL software development tools	3	4	8
	b).	List t varis simulators	3	4	7