Code No: 155AA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, August - 2022 ADVANCED COMPUTER ARCHITECTURE (Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.a) b)	Describe various shared-memory multiprocessor models in detail. Explain the layered development of parallel computers.	[8+7]
2.a)	Illustrate with an example detection of parallelism in a program using Berr condition.	nstein's
b)	Distinguish between control flow and data flow architectures.	[8+7]
3.a)	What are various scalability metrics? Explain.	
b)	What do you mean by efficiency, utilization and quality of parallelism? Explain.	[8+7]
4.a)	Distinguish between RISC and CISC architectures.	
b)	What do you mean by inclusion, coherence and locality? Explain.	[8+7]
5.a)	Explain backplane bus specification.	
b)	Explain interleaved memory organization in detail.	[8+7]
6.a)	Explain various branch and ling techniques in instruction pipeline.	
b)	Describe sequential consistency model.	[8+7]
7.a)	Explain snow bus protocol.	
b)	What are compound vector operations? Explain with an example.	[8+7]
8.a)	What do you mean by shared virtual memory? Explain.	
b)	What are various issues in multithreading? Explain.	[8+7]

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