

c. Explain the challenges in threading a loop.

4

	P18MECE152 Page No 2	
8 a.	Illustrate the usage of reduction clause in Open MP with an example and list the thumb	10
	rules / points to be taken care in its usage.	10
b.	Explain performance oriented programming using Barrier and No wait.	10
	UNIT - V	
9 a.	Explain fine grained locking system with an example.	7
b.	Explain thread safety functions with a neat diagram.	7
c.	Explain memory contention in multi-core programs.	6
10 a.	Explain data organization for high performance in programming.	8
b.	What is ABA problem? Explain the lockless implementation of a linked stack that may suffer	8
	from ABA problem.	
c.	Explain non-blocking algorithms in multicore programming.	4

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