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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, February - 2021 DISTRIBUTED DATABASES

Time: 2 hours Max.Marks:75

Answer any five questions All questions carry equal marks

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1.	Explain the reference architecture for distributed databases.	[15]
2.a) b)	What is the criteria for checking the correctness of fragmentation? Explain. What are integrity constraints? Explain with examples.	[7+8]
3.	Explain global query optimization using distributed data manager method.	[15]
4.a) b)	How fragmented relation simplification is done? Explain. Explain about semi-join reduction in distributed databases.	[8+7]
5.	Prove that 2-phase locking is a correct distributed concurrency control method.	[15]
6.a) b)	Explain about log-write-ahead protocol. State on the validity of serializability as a correctness criterion.	[7+8]
7.a) b)	Explain quorum-based commitment protocols. With examples, explain how to detect inconsistencies in distributed databases.	[7+8]
8.a) b)	Write about detection based cache consistency algorithms. Explain attribute-to-entity transformation with an example.	[8+7]

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