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[5+5]

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, April/May - 2019 DISTRIBUTED DATABASES

	3 Hours	Max. Marks: 75
Note: This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.		
PART - A $5 \times 5 \text{ Marks} = 25$		
1.a) b) c) d) e)	Discuss the relative advantages of centralized and distributed databated Discuss about translation of global queries into fragmented queries. Explain Deadlocks in distributed database. Explain about 3-phase commitment protocol. Explain about multi database concurrency control.	[5] [5] [5] [5] [5]
PART - B		
2.a)	Explain how to differ the following: fragmentation transptransparency and location transparency.	$5 \times 10 \text{ Marks} = 50$ parency, replication
b)	What is meant by data fragmentation in distributed database?  OR	[5+5]
3.a) b)	Explain about integrity constraints in distributed database. Explain reference architecture for distributed databases.	[5+5]
4.a) b)	Discuss how query optimization is done using AHY algorithm. Explain the Framework for Query Optimization.	[5+5]
5.a) b)	OR  Explain about Parametric Queries in distributed database.  Explain about the Evaluation of Aggregate Function.	[5+5]
6.a) b)	Explain Deadlock prevention in distributed databases.  Explain the deadlock detection in distributed database.	[5+5]
7.a) b)	OR Explain about the serilizability in distributed database. Explain about conservative time stamp method.	[5+5]
8.a) b)	Explain about 2-phase commitment protocol.  Discus about quorum based 3-phase commitment protocol.  OR	[5+5]
9.a) b)	Explain check points and cold restart in distributed database.  Discuss about distributed database administration.	[5+5]
10.a) b)	Explain about Distributed Component Object Model.  Explain the transaction management in Object DBMS.  OR	[5+5]
11.a)	Explain the Delivery Schedule Algorithm in Push-based Technological	ies.

b) Discuss between scheme Translation and scheme Integration. www.FirstRanker.com