Code No: 157BJ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March - 2022 DISTRIBUTED DATABASES (Information Technology) Time: 3 Hours Max. Marks: 75

Answer any Five Questions All Questions Carry Equal Marks

1.a) b)	Give an overview of various architectural alternatives in distributed DBMS. Explain partitioning algorithm.	[8+7]
2.a) b)	Explain client/server reference architecture. Give the allocation model that minimizes the total cost of processing and storage.	[8+7]
3.a) b)	Give the generic layering scheme for distributed query processing. Explain INGRES algorithm.	[8+7]
4.a)	What is an operator tree? Explain how to obtain an equivalent operator tree by app	olying
b)	transformation rules using examples. What is a semijoin program? Explain with an example.	[8+7]
5.a)	Give an overview of various types of transactions.	
b)	Explain basic timestamp-ordering algorithm.	[8+7]
6.a)	What are the various phases of optimistic transaction execution and the execution scenarios crive the rules for ensuring serializability in optimistic concurcontrol algorithms.	
b)	Explain mechanisms for deadlock avoidance.	[8+7]
7.	Explain two phase commitment protocol, and termination and recovery protocols phase commitment.	for two [15]
8.a)	What do you mean by cache consistency? What are the various methods for cache consistency?	or ensuring
b)	Explain vertical class partitioning.	[8+7]

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