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Code No: 155AY

R18

A	B. Tech III Year I Semester Examinations, March - 2021 DISTRIBUTED DATABASES Computer Science and Engineering) Max. Mai Answer any five questions	AG	Δ
All questions carry equal marks			
△(Explain about Horizontal and vertical fragmentation strategies with examples. What are the features of the reference architecture for distributed databases?	[847]	Δ
2.a) b)	What is an operator tree of a query? What is the use of operator graph? Discuss. Explain the procedure for simplifying joins between horizontally fragmented re	lations. [7+8]	
AG^{3} .	Explain the following with respect to distributed databases a) Operations in parametric query b) GROUP by operation for evaluating aggregate functions	[7+8]	
4.a) b)	What are the objectives of query processing optimization? Explain. How an optimization graph can be drawn for a given query? Discuss.	[7+8]	
5.a) b) 6.a) b)	Explain about semi-join reduction in distributed databases Discuss the differences between distributed join and non-distributed join. Write about the computational structure of distributed transaction. Distinguish between preemptive and non-preemptive methods for deadlock prev	[8+7] (7-4) (7-4) (7-4) (7-4)	Δ
7.a) A (3 b)	Explain the optimistic approach to concurrency control in distributed databases. What are the issues related to query processing and load balancing in parallel dat systems? Discuss.	tabase [8±7]	A
8.a) b)	What is object management architecture? Explain. Explain the architecture of CORBA.	[7+8]	
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