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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) M.Tech I Year I Semester Regular & Supplementary Examinations February 2018 ADVANCES IN DATABASES (CSE)													
Time: 3	hour	S					(03					Max. Mark	s: 60
				(Ansv	wer a	ll Five	e Units	6 5 X	12 =6	0 Ma	rks)		
							UN	IT-I					
1	а	What are the functions that need to be provided by distributed databases in addition to those of a centralized DBMS?											
	b	List the advantages and disadvantages of DDBMS. OR											
2	а	Explain the entity integrity and referential integrity constraints. Why is each considered important											6M
	b	Define Boyce-Codd normal form. How does it differ from 3NF? Why is it considered a stronger from of 3NF?											6M
3	2	UNIT-II Explain the three tier Client/Server architectures											
5	b	What is meant by fragmentation? Define types of fragmentation. Give an example.											5M
		OR											
4	a b	Describe the data allocation in distributed database design. Why is replication useful in DDBMS? What typical units of data are replicated ?											
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5	a b	Explain SQL queries with suitable examples											5M
6	a b	Describe characterization of query processors											7M 5M
	U												0101
7	а	Define query optimization and Explain its significance for DBMS. Discuss the rules for transformation of query tree and identify when each rule Should be applied during optimization.											
	D												
8	а	What	is relat	tion al	gebra	query	tree?						7M
	b	Explain how heuristic query optimization is performed, with an example UNIT-V											5M
9	а	What is a phantom record? Discuss the problem that a phantom record can											
	b	b Explain the following terms: transaction, granularity, Concurrency.								rrency, dirty	OIVI		
		read, serializability, and ACID properties of transactions. OR										6M	
10	а	Write i) Dist	notes ribute	on the d dead	follov locks	ving . ii) O	DBC *** EN	iii) Ti ID ***	ime sta	ampin	ig mec	hanism.	12M