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		(R10) (SET	<u>-1</u>	
		mester Supplementary Examinations, April/May-2017 ATA BASE MANAGEMENT SYSTEMS		
Time: 3 hours		(Com. to CSE, IT) Max. M	Max. Marks: 75	
		Answer any FIVE Questions		
		All Questions carry Equal Marks		
l. a)	-	bilities of a DBA? If we assume that the DBA is never his or her own queries, does the DBA still need to understand Why?	(8M)	
b)		nefits of using a DBMS to manage data in applications	(7M)	
2. a)	How the choice betwee in ER diagram design	een using aggregation or a ternary relationship is determined?	(8M)	
b)	What is a weak entity	? What are class hierarchies'? What is aggregation? Give an ivating the use of each of these ER model design constructs.	(7M)	
3.	Consider the followin	g schema: (Assume the data)	(15M)	
		narne: string, rating: integer, age: real)		
	· · · · · ·	narne: string, color: string) , <u>bid</u> : integer, <u>day</u> : date)		
		ra queries to i) Find the names of sailors who have reserved		
		e names of sailors who have reserved at least one boat sailors who have reserved at least two boats.		
4.	are entity sets mappe	e an ER diagram into SQL statements to create tables? How d into relations? How is relationship sets mapped? How are model, weak entity sets, class hierarchies, and aggregation	(15M)	
5. a)	Define 'Multivalued c dependencies for data	lependencies and Join dependencies. Discuss the use of such	(10M)	
b)		For the relation schema R(A,B, C,D) with primary key AB	(5M)	
5. a)		ase locking protocol ensures conflict serializability and that rialized according to their lock points.	(8M)	
b)	Compare the deferre	ad and immediate modification versions of the log based terms of ease of implementation and over head cost.	(7M)	
7.		sed index handle an equality query? Discuss the use of the tifying a bucket to search. Given a bucket number, explain ated on disk.	(15M)	
3.		insertion algorithm, and explain how it eliminates. Over flow nditions can an insert increase the height of the tree? 1 of 1	(15M)	