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Reg. No.: Question Paper Code: 10845 M.C.A. DEGREE EXAMINATIONS, APRIL/MAY 2023. Second Semester MC 4202 - ADVANCED DATABASE TECHNOLOGY (Regulations 2021) Maximum: 100 marks Time: Three hours Answer ALL questions. PART A — $(10 \times 2 = 20 \text{ marks})$ State the minimum conditions to be satisfied for a Distributed database. o Phase Protocol? Differentiate Deferred consideration and Detached cons Define Attribute Versioning. List down the NOSQL characteristics related to data models and query 5. languages. What are the three desirable properties of distributed systems with replicated Briefly describe about the three types of XML documents. Indicate the meaning of these notations A+,A*, A. used in specifying the elements in XML. List down the key differences between databases and IR systems. 10. What are the steps of process involved in searching relevant documents from the Inverted Index, given a set of query terms?

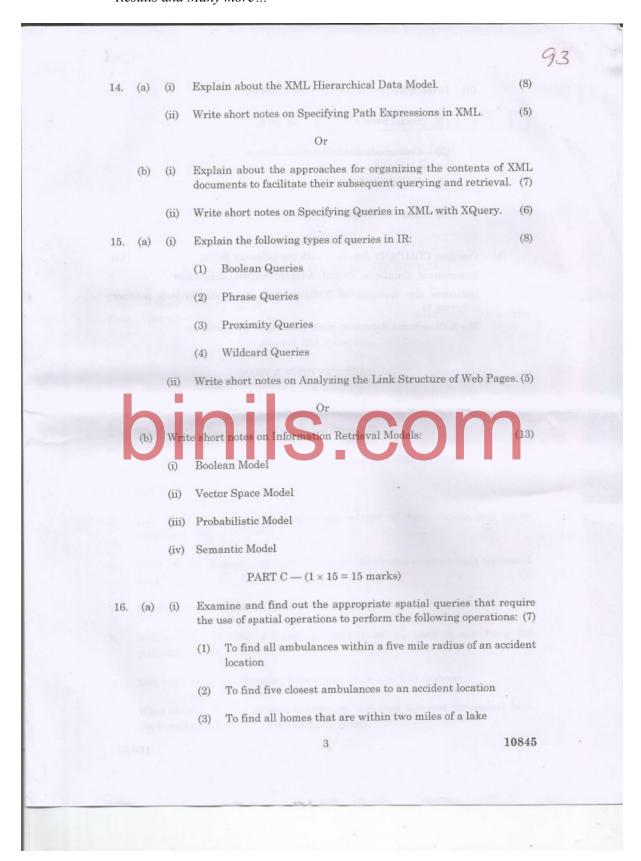
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				PART B — $(5 \times 13 = 65 \text{ marks})$	
	11.	(a)	Expla	in in detail about Distributed Concurrency Control Based on	(13)
			(i)	Distinguished Copy of a Data Item.	
			(ii)	Distributed Concurrency Control Based on Voting.	
				Or Or	
		(b)	(i)	Write short notes on the following in distributed databases:	(8)
				(1) Transparency	
				(2) Availability and Reliability	
				(3) Scalability and	
				(4) Partition Tolerance	
				(5) Autonomy	
			(ii)	Describe about Distributed Query Processing Using Semijoin	(5)
	12.	(a)	(i) (ii)	Explain about Incorporating Time in Relational Databases Tuple Versioning Write short notes on Multimedia databases.	(8) (5)
				Or	
		(b)	(i)	Explain how indexing can be done in spatial databases.	(7)
			(ii)	Explain about location and handoff management in l databases.	Mobile (6)
	13.	(a)	Expl	ain MongoDB Data Model and MongoDB CRUD Operations ument-Based NOSQL Systems.	Under (13)
				Or	
		(b)	Writ	e short notes on the following:	(13)
			(i)	Cassandra Query Language	
			(ii)	Hive Query Language	
			(iii)	OrientDB Features	
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(ii) Investigate the role of IR in the following: (8)
(1) Social Search
(2) Conversational Information Access
(3) Probabilistic Topic Modeling
(4) Question Answering Systems
Or
(b) Consider COMPANY database with the following fields: (15)
Department, Employee, Project, Address, worker, Dependent
Illustrate the features of XML schema in a step-by-step manner referring to
The XML schema document corresponding to the database
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