Total N	No.	of Questions :10] SEAT No. :	
P3532		[5560] 184 [Total No. of Pages :2]	
		T. E. (Computer Engg.)	
DATABASE MANAGEMENT SYSTEM APPLICATIONS			
		(2012 Course) (Semester - I) (End Sem.) (310244)	
Time:	21/	[Max. Marks: 70	
		ons to the cardidates.	
1))	Attempt Q.No.1 or Q.No.2, Q.No.3 or Q.No.4, Q.No.5 or Q.No.6, Q.No.7 or Q.No.8,	
		Q.No.9 or Q.No.20.	
2)		Neat diagrams must be drawn wherever necessary.	
3)		Figures to the right indicate full marks.	
4))	Assume suitable data, if necessary.	
Q1) a	a)	State and explain the advantages of Database systems over conventional	
		file systems. [5]	
t)	Explain difference SQL vs NoSQL [5]	
		OR O	
•	1)	Explain the concept of Princry key and foreign key with example. [5]	
t)	Explain the concept of Conflict Serializability and View Serializability. [5]	
02)	`		
Q 3) a	_	Explain CRUD operations in MongoDB. [5]	
ľ)	Write note on Performance Tuning in SQL Databases. [5]	
		Explain CRUD operations in MongoDB. Write note on Performance Tuning in SQL Databases. OR Given the following database: Stud_marks(rollno,name,class) Stud_result(rollno,total_marks,grade) Write SQL queries for:	
Q4) a	a)	Given the following database: [5]	
Q4) a	1)	Stud marks(rollno,name,class)	
		Stud_marks(rollno,total_marks,grade) Stud_result(rollno,total_marks,grade)	
		Write SQL queries for:	
		i) Find all students class wise who got distinction grade.	
		ii) Find the average of total_marks obtained by each class.	

iii) Display the students names with respect to class who are failed and at least 3 characters are in the name.

Explain the concept of Indexing in MongoDB.

b)

[5]

Q5) a)	What are Distributed Databases? Explain with architecture, also enlist its advantages and disadvantages. [8]
b)	Explain the concept and steps in JDBC Connectivity. [8]
,	OR
Q6) a)	Explain the concept of Parallel Databases. Also explain speed up and scale up of Parallel Databases. [8]
b)	Write short note on Cassandra and list out the differences of Cassandra and MySQL. [8]
Q7) a)	Write note on HADOOP. [7]
b)	Write note on: [10]
	i) XML DTD's
	i) XML DTD's ii) Querying XML data OR
Q8) a)	Explain the concept of HDFS and MapReduce. [7]
b)	Explain the concept of R-Programming. [5]
c)	Explain the concepts: ii) BIGDATA [5]
Q9) a)	Write short note on ETL Process. [5]
b)	List out and explain any two Data Mining Techniques. [7]
c)	Explain the BIS Components.
	OR
<i>Q10)</i> a)	Differentiate between Operational Database and Data Warehouse. [5]
b)	Explain the Association Rule Mining with example. [7]
c)	Write note on: [5]
,	
	ii) Supervised Vs Unsupervised Algorithm
	i) Recommendation Algorithm ii) Supervised Vs Unsupervised Algorithm