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		(3 Hours) [Total Marks: 100]	35,50
Note:		uestion No. 1 is <b>compulsory</b> ttempt any <b>four</b> questions from the remaining <b>six</b> questions.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Q 1.		Write short note on the following (attempt any Four)  a. Parallel data base architectures b. K-means Clustering c. Search engines d. Neural networks e. ORDBMS	20
Q 2.	a)	What are multidimensional cubes? Explain how the Pivot and Slice-dice operations are performed.	10
	b)	Describe Naïve bays classification in detail with suitable example.	10
Q 3.	a)	Discuss how the scanning, sorting and join operations can be parallelized using data partition technique	10
	b)	Explain Bell-LaPedula Model.	10
Q 4.	a)	Discuss Deadlock detection in distributed database. Explain dead lock preventive techniques with example.	10
	b)	Explain the Architecture of data warehouse and explain detail.	10
Q 5.	a)	Explain ETL process in data warehousing in detail with suitable examples.	10
	b)	Describe KDD Process in detail with suitable examples.	10
Q 6.	a)	How recovery in a distributed DBMS is more complicated than in centralized system. Justify your answer.	10
	b)	What is bloom join and semi join? Explain them in detail with example.	10
Q.7.		Differentiate between the following:  a. Synchronous vs Asynchronous replication b. Star schema vs Snow flake schema c. OODBMS vs ORDBMS d. OLAP vs OLTP	20
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