PRN:		Course Code :	BCA210

Second Year **BCA** End Semester Examination Summer 2023

Unstructured Database

Day and Date: Thursday, 22/06/2023 Max Marks: **100**

Time : 2.00 to 5.00 PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Explain NOSQL with its features.	08	2	1
	b)	Explain advantages and Disadvantages of NOSQL .	08	2	1
		OR			
	b)	Explain the emergence of NOSQL and Key points.	08	2	1
Q.2		**Attempt the following**			
	a)	Explain Distributed Data Processing using Map Reduce.	08	2	2
	b)	Explain How to store data in Key Value Store Method. Compare it with SQL.	08	2	2
		OR			
	b)	Explain CAP Theorem.	08	2	2
Q.3		**Attempt any two from the following**			
	a)	Explain Replication, master-slave replication and peer to peer replication with Suitable Diagram.	08	2	2
	b)	Describe Sharding with its features.	08	2	2
	c)	Explain Map-reduce on databases.	08	2	2
Q.4		**Attempt any two from the following**			
	a)	Describe architecture of Cassandra with diagram.	08	3	3
	b)	Make use of 'Student' database to explain CRUD operations in Cassandra database.	08	3	3
	c)	Distinguish Cassandra and MongoDB.	08	3	3
Q.5		**Attempt any Two of the following**			
	a)	Write query for CRUD operation in MongoDB for 'Employee' database.	09	3	3
	b)	Discuss Database, Collection, Document in MongoDB with example.	09	2	3
	c)	Make use of example to explain Indexing in MongoDB.	09	3	3
Q.6		**Attempt any Two of the following**			
	a)	Describe graph database and its features	09	1	4
	b)	Illustrate different applications of graph databases.	09	2	4
	c)	Differentiate between Graph database & Cassandra database.	09	3	4

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