

CBCS SCHEME

22MCA335

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Third Semester MCA Degree Examination, Dec.2023/Jan.2024

NOSQL

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks, L: Bloom's level, C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	With a proper example of car database show the creation and storing of data in Cassandra.	10	L2	CO1
	b.	Apply and develop a program that was MongoDB drivers for connectivity with Java language.	10	L2	CO1
OR					
Q.2	a.	What is scalability? Explain its types.	05	L2	CO1
	b.	Explain sorted ordered column-oriented stores.	05	L2	CO1
	c.	Explain storing data in and accessing data from Redis with example.	10	L2	CO1
Module – 2					
Q.3	a.	Explain Hbase distributed storage architecture with neat diagram.	10	L2	CO3
	b.	Explain sharding in horizontal scaling.	10	L2	CO3
OR					
Q.4	a.	With an example, explain create and retrieval operation in Redis.	10	L2	CO3
	b.	Write a note on : i) Consistent Hashing ii) Object versouring	10	L2	CO1
Module – 3					
Q.5	a.	Analyze with respect to CAP Compromising of consistency.	10	L2	CO3
	b.	Discuss the REST API.	10	L2	CO3
OR					
Q.6	a.	Explain the usage of SimpleDB with Ruby and Python.	10	L3	CO2
	b.	Explain the following with respect to Hive: i) LIMIT ii) count() iii) JOIN iv) UNION ALL	10	L3	CO2
Module – 4					
Q.7	a.	Analyze the use of MySQL as a NOSQL solution.	14	L2	CO1
	b.	Write a note on immutable data stores.	06	L2	CO1
OR					
Q.8	a.	Realize the use of rails with NOSQL.	14	L2	CO3
	b.	Write a note on Migrating from RDBMS to NOSQL.	06	L2	CO1
Module – 5					
Q.9	a.	With respect to PHP, explain grouping of data with MapReduce.	10	L3	CO2
	b.	Explain the following modifier operators: i) \$set ii) \$addToSet iii) \$push	10	L3	CO2
OR					
Q.10	a.	Explain the following with respect to Python : i) skip() ii) count() iii) distinct() iv) hint()	10	L3	CO2
	b.	Realize the concept of paging with PHP and MongoDB.	10	L2	CO3

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