## GUJARAT TECHNOLOGICAL UNIVERSITY MCA- SEMESTER -IV EXAMINATION -SUMMER-2019

	Code:4649306 Date: 21-05-201 Name: Big Data Tools	: 21-05-2019	
Tiı	me:10 tructi 1. 2.	0.30 am to 1.00 pm Total Marks: 7 ons: Attempt all questions.	70
Q.1	(a)	Do as Directed.  1. Explain the following  a. Document in MongoDb?  b. Big Data c. JobTracker d. RDD e. NameNode  2. Full form of SerDe 3. Differentiate Pig vs High  Answer the following.  1. Explain 4 V's of Big Data. 2. Give a difference between SQL, NoSQL and NewSQL. 3. Give example of NoSQL Databases.	01 01 04 02 01
Q.2	(a) (b)	What is Hadoop? What are the features of Hadoop? Explain key advantages of Hadoop. Enlighten the overview of Hadoop EcoSystem with diagram.	07 07
		OR	
	<b>(b)</b>	Explain NameNode, Secondary NameNode, and DataNode with example	07
Q.3	(a)	Write equivalent MongoDb queries of following SQL queries.  1. Select first name, salary from employee where designation ="Manager".  2. Select * from employee where designation = "Manager".  3. Select * from employee where salary > =8500 and salary ≤1000  4. Update employee set City = 'Baroda' where eno='e03'  5. Delete from employee where eno='e01'  6. Select * from employee where name like 'M%'  7. Select * from employee where city in ('Anand', 'VVNagar')	07
	<b>(b)</b>	What is MapReduce Function in MongoDb? How is a MapReduce function implemented in MongoDb. Explain with suitable example.  OR	07
Q.3	(a)	How the CRUD operations are implemented in MongoDb? Explain it with example.	07
	<b>(b)</b>	Explain any five HDFS command with example.	07
Q.4	(a)	What is Partition in Hive? Explain Static and dynamic partition with suitable example.	07
	<b>(b)</b>	Explain Filter, Foreach, Group, and Limit operator of Pig with suitable example.	07

Q.4	(a)	Explain the data types in Pig. Explain Complex data types in Pig. How many types of Execution mode of Pig? Explain Execution mode of Pig.	07
	<b>(b)</b>	Explain Hive Architecture with diagram.	07
Q.5	(a) (b)	What is Bucketing in Hive? Explain it with example. What is Spark? Explain RDD in details.	07 07
		OR	
Q.5	(a) (b)	Write a Pig Script for Word Count. Write a short note on MLib and GraphX.	07 07

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