GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VIII - EXAMINATION –WINTER-2022

Subject Code: 2688601   **Date: 17/12/2022**
Subject Name: Big Data Analytics
Time: 02:30 PM TO 05:00 PM   **Total Marks: 70**
Instructions:

  1. Attempt all questions.
  2. Make Suitable assumptions wherever necessary.
  3. Figures to the right indicate full marks.

Q.1	**(a)**	What is Big data? Explain Four V's of Big Data in brief.	**07**
	(b)	Explain architecture of HDFS.	**07**
Q.2	**(a)**	Explain Spark with its features and Components.	**07**
	(b)	What is Zookeeper? List the benefits of it.	**07**

<div align="center">OR</div>

	(b)	What is MapReduce? Explain working of various phases of MapReduce with word count example.	**07**
Q.3	**(a)**	What is Apache Hadoop? Explain Hadoop Eco-System.	**07**
	(b)	Explain Key Features of MongoDB in brief.	**07**

<div align="center">OR</div>

Q.3	**(a)**	What is Hive? Differentiate Hive and RDBMS.	**07**
	(b)	What is NoSQL? Which types of databases used in NoSQL?	**07**
Q.4	**(a)**	Discuss Apache Pig.	**07**
	(b)	Explain advantages and disadvantages of NoSQL.	**07**

<div align="center">OR</div>

Q.4	**(a)**	Explain Working of Hive.	**07**
	(b)	What is HiveQL? Explain various statements in HiveQL with example.	**07**
Q.5	**(a)**	Explain use of aggregate function in MongoDB with suitable example.	**07**
	(b)	What are the features of RDD in spark and Discuss operations of RDD?	**07**

<div align="center">OR</div>

Q.5	**(a)**	Explain CRUD operations in MongoDB with example of each operation.	**07**
	(b)	Explain database, collection, document and fields with respect to MongoDB.	**07**

<div align="center">**********</div>