

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2180710****Date: 29/11/2019****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 do you mean by Big Data Analytics? **03**
(b) Define features of Big Data. **04**
(c) Explain hadoop framework. **07**
- Q.2** (a) Illustrate basic algorithm of map reduce. **03**
(b) Explain types of data which we can distinguish for big data analytics. **04**
(c) What is apache hadoop? Explain hadoop Eco-system. **07**
- OR**
- (c) Explain Data Serialization. **07**
- Q.3** (a) How spark is faster than Mapreduce? **03**
(b) Differentiate between HBase Vs. RDBMS. **04**
(c) What is RDD? Explain properties of RDD. **07**
- OR**
- Q.3** (a) Define features of Apache Spark. **03**
(b) Differentiate between HDFS Vs. HBase. **04**
(c) Explain Component of Spark. **07**
- Q.4** (a) Write a short note on Zookeeper. **03**
(b) Explain HIVE data types. **04**
(c) Draw and explain HDFS architecture. **07**
- OR**
- Q.4** (a) Write a short note on Pig. **03**
(b) Draw and explain HBase architecture. **04**
(c) Explain working of HIVE. **07**
- Q.5** (a) What are the data types of MongoDB? Explain in brief. **03**
(b) Define features of MongoDB. **04**
(c) Differentiate SQL Vs NoSQL. **07**
- OR**
- Q.5** (a) Define features of MongoDB. **03**
(b) Which types of databases used in NoSQL? **04**
(c) Explain CRUD operations in MongoDB with example. **07**
