Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2022** 

Subject Code:3161607 Date		te:08/06/2022	
Subject Name:Big Data Analytics Time:10:30 AM TO 01:00 PM Instructions:  Total M		arks: 70	
	1. 2. 3.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.  Simple and non-programmable scientific calculators are allowed.	MARKS
Q.1	(a	) Explain types of data which we can distinguish for big data analytics.	03
<b>C</b>	(b	Explain characteristics of Big Data.	04
	(c)	What are the benefits of Big Data? Discuss challenges under Big Data. How Big Data Analytics can be useful in the development of smart transport.	07
Q.2	(a	) What is Zookeeper? List the benefits of it.	03
	( <b>b</b>		04
	(c)	Define HDFS. Explain HDFS Architecture with diagram. <b>OR</b>	07
	(c)	021	07
Q.3	(a	<ul><li>Explain the following commands of HDFS:</li><li>i)df ii) chown iii) chmod</li></ul>	03
	(b	, I	04
	(c)	Explain Hadoop Components with diagram.  OR	07
Q.3	(a		03
	(b	) What is HBase? List out and explain the basic concepts of HBase in detail.	04
	(c)	Explain working of Hive with proper steps and diagram.	07
Q.4	(a	) Explain CREATE TABLE statement of HIVE with an example.	03
	(b		04
	(c)	) Explain stream data architecture in detail.  OR	07
Q.4	(a		03
	(b	) How Implicit filtering is differing from explicit filtering?	04
	(c)	) How Big data helps stock market analysis.	07
Q.5	(a	1 1	03
	(b) (c)	•	04 07
Q.5	(a		03
	(b	· • • • • • • • • • • • • • • • • • • •	04
	$(\mathbf{c})$	Explain Spark component in detail.	07

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