Seat No.:	Enrolment No.

		GUJARAT TECHNOLOGICAL UNIVERSITY	
		BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2021	
Subject Code:3170722		Code:3170722 Date:23/12/2	2021
Sul	ject	Name:Big Data Analytics	
Tin	ne:1(0:30 AM TO 01:00 PM Total Marks	: 70
Inst	ructio	ons:	
		Attempt all questions.	
	2.		
	3.	8	
	4.	Simple and non-programmable scientific calculators are allowed.	
		T .	MARKS
Q.1	(a)	Explain types of Big Data	03
	(b)	Describe Traditional vs. Big Data business approach.	04
	(c)	What is Big Data? Explain Challenges of Conventional System.	07
Q.2	(a)	Explain basic Components of Analyzing the Data with Hadoop.	03
	(b)	What is Map Reduce and explain How Map Reduce Works?	04
	(c)	Brief Anatomy of a Map Reduce Job run and Failures.	07
		OR	
	(c)	Describe Map Reduce Types and Formats.	07
Q.3	(a)	Explain NoSQL data architecture.	03
	(b)	Elaborate Key-value stores, Graph stores, Column family stores & Document stores.	04

(c) Describe analyzing big data with a shared-nothing architecture.

OR

Q.3 (a) Difference between master-slave versus peer-to-peer distribution models.

03

(b) What is a big data NoSQL? Explain in details.

04

(c) Which Four ways that NoSQL systems handle big data problems.
(a) What is Stream Computing and Sampling Data in a Stream.
03

Q.4 (a) What is Stream Computing and Sampling Data in a Stream.(b) Write the application of RTAP.04

(c) Explain Stream Data Model and Architecture.

C

Q.4 (a) How Graph Analytics used in Big Data.
(b) Write a short note on Decaying Window.
03
04

(c) Explain with example: How to perform Real Time Sentiment Analysis of any product.

Q.5 (a) What is the use of Pig and Hive in Big Data?

(b) Describe data processing operators in Pig. 04

Describe HBase and ZooKeeper in details. 07

OR

Q.5 (a) Explain HIVE services. 03

(b) Write application of writing Spark. 04

(c) Describe any application that you know related to enhance particular business using big data and explain how it is important as a business prospective.

07