

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Business Intelligence and Big Data Analytics

Subject Code : 4TE07BIB1

Branch: B.Tech (CE)

Semester: 7

Date: 23/11/2022

Time: 11:00 To 02:00

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 Attempt the following questions: (14)

- a) Define Big Data.
- b) List out any two types of Big Data.
- c) Transaction data of the bank is?
 - A. structured data
 - B. unstructured data
 - C. Both A and B
 - D. None of the above
- d) In how many forms BigData could be found?
 - A. 2
 - B. 3
 - C. 4
 - D. 5
- e) Which of the following are benefits of Big Data processing?
 - A. Businesses can utilize outside intelligence while taking decisions
 - B. Improved customer service
 - C. Better operational efficiency
 - D. All of the above
- f) Which of the following are incorrect Big Data Technologies?
 - A. Apache Hadoop
 - B. Apache Spark
 - C. Apache Kafka
 - D. Apache Pytarch
- g) What was Hadoop named after?
 - A. Creator Doug Cutting's favorite circus act
 - B. Cuttings high school rock band
 - C. The toy elephant of Cutting's son
 - D. A sound Cutting's laptop made during Hadoop development
- h) What are the main components of Big Data?
 - A. MapReduce



- B. HDFS
- C. YARN
- D. All of the above
- i) Big Data Analysis is responsible for Organizing Data.
 - A. True
 - B. False
- j) What is Data Ingestion?
- k) Why is Hadoop used for Big Data Analytics?

- l) Structured data conforms to a data model or schema and is often stored in tabular form.
 - A. True
 - B. False

- m) Data that does not conform to a data model or data schema is known as _____.
 - A. Structured data
 - B. Unstructured data
 - C. Semi-structured data
 - D. All of the mentioned above

- n) Amongst which of the following can be considered as the main source of unstructured data.
 - A. Twitter
 - B. Facebook
 - C. Webpages
 - D. All of the mentioned above

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
A	List out and explain the features of Big Data.	07
B	List out and explain the characteristics of Big Data.	07
Q-3	Attempt all questions	(14)
A	Describe Analytic Scalability with suitable example.	07
B	How Analytical Methods and Analytical Tools are used for Data Analysis?	07
Q-4	Attempt all questions	(14)
A	Sketch out and explain the architecture of HADOOP.	07
B	List out and explain the features of HADOOP.	07
Q-5	Attempt all questions	(14)
A	Explain the significance of Map Reduce in detail.	07
B	Differentiate between Supervised learning and Unsupervised learning.	07
Q-6	Attempt all questions	(14)
A	Discuss Apriori Algorithm in detail.	07



	B	List out and explain the features of NoSQL.	07
Q-7		Attempt all questions	(14)
	A	Discuss types of NoSQL in detail.	07
	B	Write short note on YARN and Checkpointing.	07
Q-8		Attempt all questions	(14)
	A	Explain clustering technique in detail.	07
	B	Discuss significance of Hive in Big Data Analytics.	07

