Enrollmen	Exam Seat No: AH UNIVERSITY Examination-2021				
Subject Na	ame: Business Intelligence	and Big Data Analytics			
Subject Co	ode: 4TE07BIB1	Branch: B.Tech (CE)	Branch: B.Tech (CE)		
Semester:	7 Date: 15/12/202	Time: 02:30 To 05:30 Marks	:: 70		
(2) Ins (3) Dr	se of Programmable calculato structions written on main an	or & any other electronic instrument is prohibited. nswer book are strictly to be obeyed. es (if necessary) at right places. l.			
b c d e f g h i)	Define clustering.What are the main featureList some tools used for B	ess Intelligence. S block size? e. ode? es of HDFS? Big Data.	14)		

A) 2

B) 3

C) 4

D) 5

above

1) Which of the following are incorrect Big Data technologies?

A)Apache

B) Apache

C) ApachePytarch

D) Apache Kafka

Hadoop Spark

m) Which is the main component of Big Data?

A) Map

B) HDFS

C) YARN

D) All of the

Reducer

n) Big Data analysis does the following except? A) Analyzes

B) Spreads data C) Organizes data

D)Collects data

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

Q-2		Attempt all questions	(14)
	a)	Define NoSQL and where is it used?	(03)
	b)	Explain Hive Data types.	(04)
	c)	Write the steps of the K-means Clustering Algorithm. Also state its	(07)
		limitation.	
Q-3		Attempt all questions	(14)
_	a)	Difference between Hive and RDBMS.	(03)



	b)	Explain characteristics of Big Data.	(04)
	c)	What is Market Basket Analysis? Explain Association Rules with	(07)
		Confidence & Support.	
Q-4		Attempt all questions	(14)
	a)	Write a short note on intellectual property challenges for big data	(07)
	b)	Write a note on NoSQL databases. List the differences between NoSQL and relational databases.	(07)
Q-5		Attempt all questions	(14)
	a)	What is supervised and unsupervised learning?	(03)
	b)	How RDBMS differs from HBase?	(04)
	c)	Explain the architecture of Hive. List out features of Hive.	(07)
Q-6		Attempt all questions	(14)
	a)	Explain CRUD operations in MongoDB.	(07)
	b)	How big data analysis helps businesses increase their revenue? Give example.	(07)
Q-7		Attempt all questions	(14)
	a)	Explain Visual Data Analysis Techniques in details.	(07)
	b)	What are the advantages of Hadoop? Explain Hadoop Architecture and its	(07)
		Components with proper diagram.	
Q-8		Attempt all questions	(14)
	a)	Explain four V's of big data in detail.	(07)
	b)	Explain the steps of the "AprioriAlgorithm" for mining Frequent Item set.	(07)

