**R19** 

Code No: **R194205E** 

Set No. 1

## IV B.Tech II Semester Regular Examinations, April – 2023 BIG DATA ANALYTICS

(Elective V for CSE & IT, Open Elective for Other Branches)

Time: 3 hours Max.						
Answer any FIVE Questions						
ONE Question from Each unit All Questions Carry Equal Marks						
******						
UNIT I						
1	a)	List and explain different analytic processes.	[7]			
	b)	Write down the characteristics of Big Data Applications. (OR)	[8]			
2		Discuss the following in detail.				
		a) Conventional challenges in big data	[7]			
		b) Nature of Data	[8]			
UNIT II						
3	a)	Explain Filtering a stream in detail	[7]			
	b)	Explain stream data model and architecture.	[8]			
		(OR)				
4	a)	Discuss Real Time Analytics platform application for Stock Market	[7]			
	b)	predictions.  Illustrate Stream Processing Model	[7] [8]			
	U)	mustrate Stream Processing Woder	լօյ			
		UNIT III				
5	a)	Draw the architecture of HDFS and explain its components.	[7]			
	b)	How Hadoop streaming is suited with text processing explain.	[8]			
6	۵)	(OR)	F <b>7</b> 3			
6	a) b)	Discuss the various types of map reduce & its formats.  Explain various phases of Map Reduce job with an example.	[7] [8]			
	U)	Explain various phases of map reduce job with an example.	լօյ			
		UNIT IV				
7	a)	Explain the key components of PIG architecture.	[7]			
	b)	Write short notes on: i) HBase ii) zookeeper	[8]			
0	- \	(OR)	[7]			
8	a) b)	How will you query the data in HIVE?  Explain two execution types or modes in PIG	[7] [8]			
	U)	Explain two execution types or modes in PIG.	լսյ			
UNIT V						
9	a)	Distinguish between Regression and Classification.	[7]			
	b)	Explain the importance of predictive analytics for improving Business.	[8]			
10	9)	(OR) How do businesses use Pegression Analysis?	[7]			
10	a) b)	How do businesses use Regression Analysis?  Explain in detail about Multiple Linear Regression technique.	[7] [8]			
	0)	Explain in dean about maniple Emon Regression termique.	آما			

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Set No. 2

## IV B.Tech II Semester Regular Examinations, April – 2023 BIG DATA ANALYTICS

(Elective V for CSE & IT, Open Elective for Other Branches)

Time: 3 hours Max. Marks: 75 Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks UNIT I a) Discuss in detail about Intelligent Data Analysis. 1 [7] b) Discuss various sources of Big Data and the significance of Big Data Analytics. [8] (OR) 2 a) What is Bigdata? Describe the main features of a big data in detail. [7] b) What are the various forms of Big Data? Explain the suitable Data Exploration techniques. [8] **UNIT II** a) What is meant by stream Processing? Explain how to count distinct elements in 3 a stream. [7] b) Explain the concept of Mining data streams and applying filters. [8] (i) Decaying Windows 4 Explain the following: [7] (ii) RTAP Applications [8] **UNIT III** 5 a) Explain in detail about HDFS. [7] b) Write in detail the concept of developing the Map Reduce Application. [8] a) Mention the configuration of Hadoop Cluster using Fully Distributed 6 Mode in detail. [7] b) Name different configuration files in Hadoop. [8] **UNIT IV** 7 a) Give a detail note on HBASE. [7] b) Illustrate the Architecture of PIG. [8] (OR) a) How to create and Manage the database and tables using Hive. [7] b) Write a brief notes on distributed modes of running PIG Scripts. [8] **UNIT V** 9 a) Explain about Predictive Analysis. [7] b) Illustrate Simple Linear Regression. [8] (OR) a) Write the importance of Regression in Data Science and Data Analytics. 10 [7] b) How to interpret coefficients of Multiple Linear Regression? Explain. [8]

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Set No. 3

## IV B.Tech II Semester Regular Examinations, April – 2023 BIG DATA ANALYTICS

**R19** 

(Elective V for CSE & IT, Open Elective for Other Branches)

T	ime:	3 hours Max. Ma	rks: 75			
Answer any FIVE Questions						
ONE Question from Each unit						
All Questions Carry Equal Marks  *****						
UNIT I						
1	a)	Explain in detail about Nature of Data and its applications.	[7]			
	b)	List out the challenges of Conventional Systems. (OR)	[8]			
2		Define the following:	F. 273			
		a) Intelligent Data Analytics b) Analysis Vs Penerting	[7]			
		b) Analysis Vs Reporting.	[8]			
UNIT II						
3	a)	Explain with a neat diagram about Stream data model and its Architecture.	[7]			
	b)	Explain the real time application of stream computing. (OR)	[8]			
4	a)	Illustrate Stream Computing.	[7]			
	b)	Explain the usecases of Real Time Sentiment Analysis.	[8]			
		UNIT III				
5	a)	List and explain the important features of Hadoop.	[7]			
	b)	Explain the differences between old and new Java MapReduce API. (OR)	[8]			
6	a)	Explain the architecture of Building blocks of Hadoop.	[7]			
	b)	Describe the anatomy of Map Reduce program and discuss various types of failures in running a Map Reduce job.	[8]			
UNIT IV						
7	a)	Explain various types of Data processing operators in pig.	[7]			
	b)	Describe two modes for running scripts in Pig	[8]			
0	`	(OR)				
8	a)	Explain the creating, dropping and altering databases using Apache Hive.	[7]			
	b)	Discuss in detail about windowing in HiveQL.	[8]			
		UNIT V				
9	a)	What are the interpretations of the coefficients in the multiple linear				
		regression models?	[7]			
	b)	How do you interpret statistically significant coefficients? (OR)	[8]			
10	a)	Discuss in detail about visualization in big data analytics.	[7]			
	b)	Illustrate Multiple Linear Regression.	[8]			

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Set No. 4

## IV B.Tech II Semester Regular Examinations, April – 2023 BIG DATA ANALYTICS

(Elective V for CSE & IT, Open Elective for Other Branches)

Time: 3 hours Max. Marks: 75 Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks **UNIT I** a) Distinguish between conventional computing and intelligent computing. 1 [7] b) List out and Explain the Features of Big Data Platforms/frameworks. [8] (OR) 2 a) Discuss in detail about Structured Unstructured Data and [7] Semi-structured Data. b) Define Big Data. Describe its characteristics. [8] **UNIT II** 3 a) Explain the Data streaming concept in detail. [7] b) Write a short note on Decaying Window Algorithm. [8] Explain the different applications of data streams in detail. 4 [7] a) b) What is Real Time Analytics? Discuss their technologies in detail [8] **UNIT III** 5 a) Explain the anatomy of write operation in HDFS. [7] b) Explain the map reduce data flow with single reduce and multiple reduce. [8] (OR) 6 a) Write a Java program to implement the word count program using Map Reduce paradigm. [7] b) Explain the role of combiner and partitioner phases in Map Reduce job. [8] **UNIT IV** What is HiveQL? Explain its features. 7 [7] a) b) What is Zookeeper explain its features with applications. [8] (OR) a) Give a brief note on Querying Data in Hive. 8 [7] What is Apache PIG? Give its features, running modes and applications. [8] **UNIT V** a) How to interpret p values and coefficients in regression analysis? [7] b) Explain Cross-Validation in Multiple linear regression. [8] 10 a) Is multiple linear regression predictive analytics? justify. [7] b) Give a brief note on Model Selection and Stepwise Regression. [8]