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## Seventh Semester B.E. Degree Examination, Jan./Feb. 2023 **Big data Analytics**

Time: 3 hrs.

Max. Marks: 100

	Ι	Note: Answer any FIVE full questions, choosing ONE full question from each mo	dule.
		Module-1	
1	a.	Define Big data. Explain the classification of Big data.	(10 Marks)
	b.	Define Scalability and its types along with examples.	(10 Marks)
		OR CA	
2	2 a.	Explain the functions of each layer in Big data architecture design with a diagram.	
		Define data annual dia Fig. 1 i di Cali di Cal	(10 Marks)
	b.	Define data preprocessing. Explain in brief the needs of preprocessing.	(10 Marks)
		Module-2	
3		What is HDFS? Highlight the important design features of the HDFS.	(10 Marks)
	b.	Bring out the concepts of the HDFS block replication with an example.	(10 Marks)
		OR OR	
4	1 a.	Explain Apache sqoop import and export method with neat diagram.	(10 Marks)
	b.	Demonstrate any six HBase commands with output.	(10 Marks)
		Module-3	
5	5 a.	Explain about NOSQL data store and its characteristics.	(10 Marks)
	b.	Describe the principle of working of the CAP theorem.	(10 Marks)
6	<b>a</b> .	OR  Demonstrate the working of key-value store with an example.	(10 Marks)
	b.	Describe the features of MangoDB, and its industrial application.	(10 Marks)
		Module-4	
7	1	Describe the Map tasks, Reduce tasks and Map Reduce Execution process.	(10 Marks)
	b.	Describe the Hive architecture and its characteristics.	(10 Marks)
		OR	
8	3 a.	Demonstrate the pig architecture for scripts data flow and processing.	(10 Marks)
	b.	Differentiate between Pig and Map Reduce, give industrial applications for each.	(10 Marks)
•		Module-5	40.74
9	a. b.	Explain the simple linear regression analysis.  Demonstrate frequent item set mining and association rule mining.	(10 Marks) (10 Marks)
	Ů.	Demonstrate frequent tem set finning and association rule finning.	(10 Marks)
		OR	
1(		With a neat diagram, write the steps in K-means clustering.	(10 Marks)
	b.	Explain the purpose of web usage analytics and the significance of web graphs.	(10 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

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