18CS72

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

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	1	ote: 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
2	0	OR Explain the functions of each layer in Dig data archive turn design with a discussion	
2	a.	Explain the functions of each layer in Big data architecture design with a diagram	(10 Marks
	b.	Define data preprocessing. Explain in brief the needs of preprocessing.	(10 Marks
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		Module-2	
3	a.	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	
4	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	a.	Explain about NOSQL data store and its characteristics.	(10 Mark
J	b.	Describe the principle of working of the CAP theorem.	(10 Mark
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		OR	
6	a.	Demonstrate the working of key-value store with an example.	(10 Mark
	b.	Describe the features of MangoDB, and its industrial application.	(10 Mark
_		Module-4	(10) (
7	a.	Describe the Map tasks, Reduce tasks and Map Reduce Execution process.	(10 Mark
	b.	Describe the Hive architecture and its characteristics.	(10 Mark
		OR	
8	a.	Demonstrate the pig architecture for scripts data flow and processing.	(10 Mark
	b.	Differentiate between Pig and Map Reduce, give industrial applications for each.	(10 Mark
		Module-5	
9	a.	Explain the simple linear regression analysis.	(10 Mark
	b.	Demonstrate frequent item set mining and association rule mining.	(10 Mark
		OR	
10	a.	With a neat diagram, write the steps in K-means clustering.	(10 Mark
	b.	Explain the purpose of web usage analytics and the significance of web graphs.	(10 Mark

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