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CBCS SCHEME

USN

18CS72

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

Tir	Time: 3 hrs.			
	Λ	Note: Answer any FIVE full questions, choosing ONE full question from each	module.	
		Module-1	A	
1	a.	Define Big data. Explain the classification of Big data.	V10.04 1 ->	
•	b.	Define Scalability and its types along with examples.	(10 Marks) (10 Marks)	
		OR		
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)	
		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 Marks)	
	b.	Describe the principle of working of the CAP theorem.	(10 Marks)	
		OR		
6	a.	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	a.	Describe the Map tasks, Reduce tasks and Map Reduce Execution process.	(10 Marks)	
	b.	Describe the Hive architecture and its characteristics.	(10 Marks)	
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		OR		
8	a.	Demonstrate the pig architecture for scripts data flow and processing.	(10 Marks)	
	b.	Differentiate between Pig and Map Reduce, give industrial applications for ea	ch. (10 Marks)	
		Module-5		
9	a.	Explain the simple linear regression analysis.	(10 Marks)	
	b.	Demonstrate frequent item set mining and association rule mining.	(10 Marks)	

With a neat diagram, write the steps in K-means clustering.

(10 Marks) (10 Marks)

Explain the purpose of web usage analytics and the significance of web graphs.

OR