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18CS72

Seventh Semester B.E. Degree Examination, July August 2022 **Big Data Analytics**

Time: 3 hrs.

Max Marks: 100

		Max. Ma	ırks: 100
		Note: Answer any FIVE full questions, choosing ONE full question from each mod	lule.
1		Madulo-1	
1	a.	Define Data, Web data Big data Also explain structured semistructured and un	structured
	b		/ 1 O S F - 1 - 1
	0.	List and explain the characteristics of big data. Illustrate by considering an e	xample of
		E-commerce, how big data is used.	(10 Marks)
2	a.	With a neat diagram, explain the function of each of the S	
		With a neat diagram, explain the function of each of the five layers in big data a design.	rchitecture
	b.		(12 Marks)
		and that yell stack help in analytics tasks?	(08 Marks)
		Module-2	
3	a.	With a neat diagram, explain Hadoop main components and ecosystem component	S.
	b.		(09 Marles)
	0.	Brief out the features of Hadoop HDFS? Also explain the functions of Name Nod Node.	e and Data
	C.		(08 Marks)
		Explain any two TIDI'S confinants with example.	(04 Marks)
		OR	
4	a.	W 11 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		(i) HDFS block replication (ii) HDFS safe mode.	
		(iii) Rack awareness (iv) Name Node high availability.	(12 Marks)
	b.	Discuss the Apache sqoop Import and Export methods with neat diagrams.	(08 Marks)
		A see a second s	(00 Marks)
		Module-3	
5	a.	List and compare the features of Big Table, RC, ORC and Parquet data stores.	(10 Marks)
	b.	With example explain key-value store.	(10 Marks)
,		OR OR	
6	a.	Discuss the usage of MongoDB, Cassandra, CouchDB, Oracle NoSQL and Riak.	(10 Marks)
	b.	List the Pros and Cons of distribution using sharding.	(05 Marks)
	C.	Give the comparison between NoSQL and SQL/RDBMS.	(05 Marks)
		Madala	
7		Module-4 Describe Man Paduca Execution stars with a rest of the	
7	a.	Describe MapReduce Execution steps with a neat sketch.	(12 Marks)
	b.	How node failure can be handled in Hadoop? Discuss.	(08 Marks)
		OR	
8	a.	With a neat diagram, describe Hive integration and work flow steps.	
0	b.	Explain with Return type and Syntax the Hive built-in functions.	(10 Marks)
	U.	byplant with recent type and bymax the trive built-in functions.	(10 Marks)

9	a. b.	Discuss Regression Analysis using Linear and Non-linear regression models. Explain with an example Apriori algorithm to evaluate candidate key.	(10 Marks)
		Write a note on: (i) Web princes	

(ii) Web mining
(iii) Web content mining.
(iii) Web usage mining.
(iii) Web usage mining.
(12 Marks)
How the Cliques discover communities from social network analysis?
(04 Marks)
Define a Page Rank

