



18CS72

(10 Marks)

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

Time: 3 hrs. Max. Marks: 100

		ins.	IIAS. 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each mod	lule.
1	a. b.	Module-1 Define Data, Web data. Big data. Also explain structured, semistructured and undata. List and explain the characteristics of big data. Illustrate by considering an electrometric, how big data is used.	(10 Marks)
•		OR	1.
2	a.	With a neat diagram, explain the function of each of the five layers in big data a design.	(12 Marks)
	b.	How does Berkeley Data Analytics stack help in analytics tasks?	(08 Marks)
		Module-2	
3	a.	With a neat diagram, explain Hadoop main components and ecosystem componen	
	b.	Brief out the features of Hadoop HDFS? Also explain the functions of Name Node. Explain any two HDFS commands with example.	(08 Marks) e and Data (08 Marks) (04 Marks)
		OR	
4	a. b.	Explain the following: (i) HDFS block replication (ii) HDFS safe mode. (iii) Rack awareness (iv) Name Node high availability. Discuss the Apache sqoop Import and Export methods with neat diagrams.	(12 Marks) (08 Marks)
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5	a. b.		(10 Marks) (10 Marks)
		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)
		Module-4	
7	a. b.	Describe MapReduce Execution steps with a neat sketch.	(12 Marks) (08 Marks)
		OR	
8	a	With a neat diagram, describe Hive integration and work flow steps.	(10 Marks)
	b	Explain with Return type and Syntax the Hive built-in functions	(10 Marks)

Explain with Return type and Syntax the Hive built-in functions.

Module-5

Discuss Regression Analysis using Linear and Non-linear regression models. (10 Marks) b. Explain with an example Apriori algorithm to evaluate candidate key. (10 Marks)

OR

- 10 a. Write a note on:
 - Web mining (i)
 - Web content mining. (ii)
 - Web usage mining. (iii)

(12 Marks)

b. How the Cliques discover communities from social network analysis?

(04 Marks)

c. Define a Page Rank.

(04 Marks)

