

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2023

CMSADSE04T-COMPUTER SCIENCE (DSE3/4)

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

GROUP-A

1.		Answer any four questions from the following:		2×4	= 8
	(a)	What is HDFS?			
	(b)	Define BIG Data.			
	(c)	What is sequence file in Hadoop?			
	(d)	Why MongoDB is used?			
	(e)	What do you mean by Bootstrapping?			
	(f)	What do you mean by Sampling?			
	(g)	Define any two characteristics of BIG Data.			
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GROUP-B

Answer any four questions from the following	$8 \times 4 = 32$
a) What is MongoDB? Write three key features of it.	2+3
b) What are the limitations of Hadoop?	3
a) What is Hadoop? Explain its components.	4
b) Explain Mapper and Reducer class.	4
What is YARN (Yet Another Resource Negotiator) and its role in Hadoop?	4
•	4
) What is intelligent data Analysis?	4
Define the different inferences in Big Data analysis.	4
What is Cluster? Explain the setting up a Hadoop Cluster.	8
) What are the five 'V's of Big Data?	4
	4
Write short notes on: (any two)	4+4
) Big data in healthcare	
) Privacy considerations while dealing with big data	
NoSQL.	
	What is MongoDB? Write three key features of it. What is Hadoop? Explain its components. Explain Mapper and Reducer class. What is YARN (Yet Another Resource Negotiator) and its role in Hadoop? What are the benefits of using NoSQL databases? What is intelligent data Analysis? Define the different inferences in Big Data analysis. What is Cluster? Explain the setting up a Hadoop Cluster. What are the five 'V's of Big Data? What are the different file formats that can be used in Hadoop?

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