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PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 07-10-2025

Time: 09.30am to 11.00am

School: SOCSE	Program: B.Tech (CSE)	
Course Code: CSE3509	Course Name: Emerging Technologies in Big Data	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	46	44			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Describe big data.	2 Marks	L1	CO1
2	List applications of big data.	2 Marks	L1	CO1
3	Describe YARN.	2 Marks	L1	CO1
4	Outline features of Sqoop.	2 Marks	L1	CO2
5	List data types in Hive.	2 Marks	L1	CO2

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain Anatomy of File Read.	10 Marks	L2	CO 1
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Or

7.	a.	Summarize history of Hadoop.	10 Marks	L2	CO 1
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8.	a.	Consider a Weather dataset. The temperatures for the years 1950 and 1949 are given below: (1950,0), (1950,22), (1950, -11), (1949,111), (1949,78) Apply reduce function to find the maximum temperature.	10 Marks	L2	CO1
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Or

9.	a.	Explain steps for installation of Hadoop single node cluster configuration.	10 Marks	L2	CO1
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10.	a.	Explain architecture of Sqoop.	10 Marks	L2	CO 2
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Or

11.	a.	Explain table partitioning and bucketing in Hive.	10 Marks	L2	CO 2
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12.	a.	Explain Hive architecture.	10 Marks	L2	CO 2
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Or

13.	a.	Explain Sqoop and its features.	10 Marks	L2	CO 2
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