



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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End - Term Examinations - December 2025

Date: 20 / 12 / 2025

Time: 09:30am - 12:30pm

School: PSCS	Program: B.Tech (CBD)		
Course Code: CBD2000	Course Name: Introduction to Big Data		
Semester: 3 rd	Max Marks: 100	Weightage: 50%	

CO - Levels	C01	C02	C03	C04
Marks	44	44	46	46

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.

10Q x 2M=20M

1.	Describe Big data.	2 Marks	L1	C01
2.	Describe features of open-source data.	2 Marks	L2	C01
3.	List features of Apache Parquet.	2 Marks	L2	C02
4.	Describe Apache Flume.	2 Marks	L1	C02
5.	Describe YARN.	2 Marks	L2	C03
6.	List key components of MapReduce.	2 Marks	L2	C03
7.	Describe Oozie.	2 Marks	L1	C03
8.	Describe Apache Spark.	2 Marks	L1	C04
9.	Describe Apache Kafka.	2 Marks	L1	C04
10.	Describe Pig.	2 Marks	L1	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Explain sources of Big data.	10 Marks	L2	CO1
Or					
12.	a.	Discuss evolution of Big data.	10 Marks	L2	CO1
Or					
13.	a.	Discuss Big data approach. Differentiate between traditional and big data approach.	10 Marks	L2	CO1
Or					
14.	a.	Explain trends in Big data.	10 Marks	L2	CO1
Or					
15.	a.	Explain components of Big data architecture.	10 Marks	L2	CO2
Or					
16.	a.	Explain Apache Flume and its components.	10 Marks	L2	CO2
Or					
17.	a.	Explain architecture of HDFS.	10 Marks	L2	CO2
Or					
18.	a.	Discuss key features and operations of Sqoop.	10 Marks	L2	CO2
Or					
19.	a.	Describe YARN architecture.	10 Marks	L2	CO3
Or					
20.	a.	Explain components of Hadoop Eco-system.	10 Marks	L2	CO3
Or					
21.	a.	Explain MapReduce Programming model.	10 Marks	L2	CO3
Or					
22.	a.	Explain execution workflow of MapReduce.	10 Marks	L2	CO3
Or					
23.	a.	Explain Apache Spark and its features.	10 Marks	L2	CO4
Or					
24.	a.	Discuss Hive and joins in Hive.	10 Marks	L2	CO4
Or					
25.	a.	Discuss Apache Kafka.	10 Marks	L2	CO4
Or					
26.	a.	Explain working of Apache Spark.	10 Marks	L2	CO4