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Bengaluru

Mid Term Examinations - October 2026

Date: 08/10/2026 **Time:** 11:45 AM - 01:15 PM

Course Code: CBD2508 **Course Name:** Big Data Technologies

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	46	44

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	What are the Four Vs of Big Data? Explain any two.	2	CO1	BT1
2	Differentiate between semi-structured and quasi-structured data with one example each.	2	CO1	BT2
3	What is NameNode High Availability in Hadoop 2.0? State its purpose.	2	CO1	BT1
4	What is a Combiner in MapReduce? State its purpose.	2	CO2	BT1
5	What is a Container in YARN? State its purpose.	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the anatomy of a file read operation in HDFS with a neat diagram.	10	CO1	BT2
7	Explain HDFS block and replication management with suitable examples.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Compare Traditional Data Processing and Big Data approaches based on storage, processing, scalability, and infrastructure.	10	CO1	BT2
9	Explain NoSQL databases and discuss the four major types with neat diagram and examples.	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain the MapReduce execution process from input data to final output, including Mapper, Shuffle, Sort, and Reducer.	10	CO2	BT2
11	Explain Apache Flume architecture and working with its major components.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	Explain Sqoop import and export operations with suitable command examples.	10	CO2	BT2

13	Explain YARN architecture and scheduler policies, including ResourceManager, NodeManager, ApplicationMaster, and Container.	10	CO2	BT2