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# PRESIDENCY UNIVERSITY

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Bengaluru

**Mid Term Examinations - October 2026**

**Date:** 08/10/2026 **Time:** 02:00 PM - 03:30 PM

**Course Code:** CSA3430 **Course Name:** Bigdata Analytics

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

| CO - Levels | CO1 |
|---|---|
| Marks | 90 |

**PART A: Answer Following Questions. 10 M**

| Q.N. | Questions | M | CO | BT |
|---|---|---|---|---|
| 1 | Differentiate between traditional data and Big Data (Any 2) | 2 | CO1 | BT2 |
| 2 | List the various types of big data | 2 | CO1 | BT1 |
| 3 | Identify the responsibilities of Job Tracker. | 2 | CO1 | BT1 |
| 4 | Classify the critical responsibilities of the Name Node, and what happens if it fails? | 2 | CO1 | BT2 |
| 5 | State how do the various components of HDFS interact to maintain the integrity and availability of data? | 2 | CO1 | BT1 |

**PART B : Answer Any 1 Following Questions. 10 M**

| Q.N. | Questions | M | CO | BT |
|---|---|---|---|---|
| 6 | List the different features of Hadoop and give justifications for each. | 10 | CO1 | BT1 |
| 7 | Explain DFS and highlights its components. | 10 | CO1 | BT2 |

**PART C: Answer Any 1 Following Questions. 10 M**

| Q.N. | Questions | M | CO | BT |
|---|---|---|---|---|
| 8 | Differentiate between HDFS, Map Reduce and Yarn (Any 5) | 10 | CO1 | BT2 |
| 9 | Examine how Secondary Name Node serves as the helping node to Name Node | 10 | CO1 | BT3 |

**PART D: Answer Any 1 Following Questions. 10 M**

| Q.N. | Questions | M | CO | BT |
|---|---|---|---|---|
| 10 | Apply the below scenario and give an efficient approach to resolve it. Imagine you're working for a company that needs to understand the web traffic patterns on their site. To do this, you decide to use a sample dataset of web logs. By employing MapReduce, you can efficiently process and analyze this data to uncover insights about user behavior and site performance. | 10 | CO1 | BT3 |
| 11 | Apply the below scenario and implement a MapReduce job that processes these documents to count how many times each word appears across the entire dataset. Imagine you’re working on a project where you need to analyze a large collection of text documents to determine the frequency of each word. To handle this efficiently, you decide to use a MapReduce approach. In this scenario, you’ll use a sample dataset of text documents. | 10 | CO1 | BT3 |

| PART E: Answer Any 1 Following Questions. 10 M | | | | |
|---|---|---|---|---|
| **Q.N.** | **Questions** | **M** | **CO** | **BT** |
| 12 | Classify the different types of No-SQL. Explain all in details | 10 | CO1 | BT1 |
| 13 | Explain the HDFS architecture with diagram | 10 | CO1 | BT1 |