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**PRESIDENCY UNIVERSITY
BENGALURU**

RESEARCH AND DEVELOPMENT

Ph.D. Course Work

Mid-Term Examinations-AUGUST 2024

Odd Semester: Ph.D. Course Work 2024 - 25

Course Code: CSE906

Course Name: Advanced Database and Big Data Analytics

Department: Computer Science and Engineering

Date: 12/08/2024

Time: 02:00pm – 03:30pm

Max Marks: 50

Weightage: 25%

Instructions:

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

PART A (THOUGHT PROVOKING)

Answer all the Questions. Each question carries 5 marks.

(4Qx 5M= 20M)

1. Briefly explain about the Client/Server Architecture. (CO: 01 BL: 01)
2. Discuss about the Database Security Issues. (CO: 01 BL: 02)
3. Illustrate the centralized and distributed client-server architectures in parallel databases.
(CO: 01 BL: 04)
4. What is meant by Hadoop? What are the core components in Hadoop? (CO: 02 BL: 02)

PART B (PROBLEM SOLVING)

Answer all the Questions. Each question carries 10 marks.

(3Qx 10M= 30M)

5. Discover the various Counter measures to deal with these problems. (CO: 02 BL: 03)
6. Explain High Level HBase Architecture-HBase schema design. (CO: 03 BL: 01)
7. Demonstrate an example in using MapReduce Algorithm for data processing.
(CO: 02 BL: 02)
