20P451 (Pages: 1) Name: ………………….....

Reg. No……………………..

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022
(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P CSS4 E03e - FUNDAMENTALS OF BIG DATA
(Computer Science –Elective Course)

(2019 Admission onwards)

Time: Three Hours   Maximum: 30 Weightage

PART A
Answer any *four* questions. Each question carries 2 weightage

1. What is Big data and what is its importance?

2. What are the characteristics of a big data analysis framework?

3. Define PIG in Big data analytics?

4. What is Hadoop Streaming?

5. Differentiate between No Sql and Relational Database?

6. Explain JAQL?

7. State the purpose of $not in MongoDB?

(4 × 2 = 8 Weightage)

PART B
Answer any *four* questions. Each question carries 3 Weightage

8. Differentiate between HBase and Hive.

9. Describe the implementation of index related functions in MongoDB.

10. Describe in detail about HDFS?

11. What is RecordReader and RecordWriter in Hadoop? Describe.

12. Explain CMS and its functions?

13. Define: a. Avro   b. Oozie

14. What is a Wrapper Class? Explain how Wrapper Class is implemented in MapReduce?

(4 × 3 = 12 Weightage)

PART C
Answer any *two* questions. Each question carries 5 weightage.

15. Explain the core components of Hadoop?

16. Describe MongoDB projection operators in detail.

17. Explain various types of NoSQL databases.

18. Describe the characteristics of a Big Data Analysis Framework.

(2 × 5 = 10 Weightage)

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