23P450 (Pages: 2) Name : .....

Reg. No : .....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025

(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P CSS4 E03E - FUNDAMENTALS OF BIG DATA

(Computer Science)

(2019 Admission onwards)

Time: 3 Hours Maximum: 30 Weightage

Part-A

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

1. Expalin the unique challenges in security infrastructure of big data.
2. With example describe columnar database.
3. What do you mean by social media analytics?
4. Give examples of key- value pair data in CSV format and JSON format.
5. Mention various conditional operators in MongoDB.
6. Explain Hadoop common components.
7. Explain Driver class and Reducer class in Hadoop Java API.

(4 × 2 = 8 Weightage)

Part-B

Answer any ***four*** questions. Each question carries 3 weightage.

8. Define Data Analytics. Explain its types of analytics.
9. What are the considerations needed to modify Business intelligence products to handle big data?
10. Explain the features of MongoDB.
11. Mention the various statements with example for designing a database in MongoDB.
12. Explain how to reference a database.
13. Discuss the role of Flume and Lucene.
14. Briefly explain Hadoop -specific data types.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain the dimensions of Big Data and its different types of data.

16. Define data analytics and its types.

17. Explain Pig and Hive.

18. What is MapReduce? Explain Hadoop Java API for MapReduce.

(2 × 5 = 10 Weightage)

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