

24P450

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Name:

Reg.No:

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PCSS4E03E - 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. Explain the 5 V's in Big Data.
2. Explain any two nonrelational databases .
3. Explain monetizing analytics.
4. Give examples of key- value pair data in CSV format and JSON format.
5. Explain various conditional operators in MongoDB.
6. Explain Hadoop common components.
7. Explain the wrapper class in Hadoop.

(4 × 2 = 8 Weightage)

Part-B

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

8. With example explain different data types of Big Data.
9. Explain text analytics tools for big data.
10. Mention the various features available in MongoDB.
11. Explain the steps to design a database in MongoDB.
12. Mention the steps to remove elements from an array.
13. Illustrate ZooKeeper and Hbase.
14. Briefly describe the Hadoop Java API for MapReduce.

(4 × 3 = 12 Weightage)

Part-C

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

15. Describe Big Data stack with neat diagram.
16. Explain data analytics and its types.
17. Elaborate Pig and Jaql.
18. Define MapReduce. Define Mapper, Reducer and Driver class with code.

(2 × 5 = 10 Weightage)
