

22P450

(Pages: 2)

Name:

Reg.No:

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2024

(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. What is Big Data? Explain scope of Big Data.
2. Elaborate layer 0 of Big Data stack.
3. Explain monetizing analytics.
4. Explain \$slice, \$size, \$exists, \$type, \$not with examples.
5. Mention various update operators.
6. Describe 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. With example explain different data types of Big Data.
9. What are the characteristics of Big Data analysis framework.
10. Explain different NoSQL databases. What is the advantage over relational databases.
11. Mention the various features available in MongoDB.
12. Explain the steps to design a database in MongoDB.
13. Explain the role of Flume and Lucene.
14. Explain Writable and WritableComparable interfaces.

(4 × 3 = 12 Weightage)

Part-C

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

15. Explain operational databases in big data.
16. Define Big Data Analytics. Explain its types.
17. Elaborate Pig and Hive.
18. Briefly explain Hadoop Java API for MapReduce.

(2 × 5 = 10 Weightage)
