

**19P454**

(Pages: 1)

Name: .....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2021**

(CBCSS - PG)

**CC19P CSS4 E03e - FUNDAMENTALS OF BIG DATA**

(Computer Science – Elective Course)

(2019 Admission Regular)

Time: Three Hours

Maximum: 30 Weightage

**PART A**

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

1. What is Big Data? Explain its importance.
2. Write down the computing resources of Big Data Storage.
3. What are the assumptions and goals of HDFS?
4. Write the advantages of NoSQL.
5. Describe the role of CMS in big data management.
6. Explain the role of Hive in Hadoop?
7. Write a note on Mapper class and Reducer class.

**(4 × 2 = 8 Weightage)**

**PART B**

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

8. Explain the characteristics of a Big Data Analysis Framework.
9. Explain big data stack with a neat diagram.
10. Write a note on MongoDB and CouchDB.
11. Explain the various types of NoSQL.
12. Which are the different operators in jaql? Explain with examples.
13. Explain ZooKeeper, HBase and Lucene.
14. How can we implement a wrapper class in MapReduce?

**(4 × 3 = 12 Weightage)**

**PART C**

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

15. What is Hadoop? Explain its core components.
16. How to design a database in MongoDB?
17. Define text analytics. What are the different text analytics tools for Big Data?
18. Explain the Hadoop Java API for MapReduce.

**(2 × 5 = 10 Weightage)**

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