FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(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. Elaborate the 5 V's in Big Data.

2. Elaborate layer 0 of Big Data stack.

3. What are the characteristics of big data analysis?

4. Explain with examples to navigate, insert and query data in MongoDB.

5. Mention various aggregation commands used in MongoDB.

6. Explain Hadoop streaming.

7. Explain the wrapper class in Hadoop.

(4 × 2 = 8 Weightage)

Part-B

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

8. Explain graph databases and spatial databases with example.

9. Mention NLP analysis on text at different levels.

10. Mention different NoSQL databases.

11. Explain the features of MongoDB.

12. Mention how to reference a database

13. Explain HDFS architecture.

14. Explain the Hadoop Java API for MapReduce.

(4 × 3 = 12 Weightage)

Part-C

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

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

16. Define Big Data Analytics. Explain its types.

17. Short notes on   a) Flume   b) Zookeeper   c) Hbase   d) Lucene   e)Avro

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

(2 × 5 = 10 Weightage)

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