USN ☐☐☐☐☐☐☐☐☐☐   **18SCS21**

Second Semester M.Tech. Degree Examination, June/July 2019
Managing Big Data

Time: 3 hrs.   Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1   a.   Explain about Big data analytics.   **(10 Marks)**
   b.   Explain about unstructured data and implementing unstructured data management.   **(10 Marks)**

OR

2   a.   Explain briefly on Web analytics in Big data.   **(12 Marks)**
   b.   Explain about crowd sourcing analytics and Mobile business intelligence.   **(08 Marks)**

Module-2

3   a.   Explain about Aggregate data models and key value document data models.   **(12 Marks)**
   b.   Explain about Schema less databases in detail.   **(08 Marks)**

OR

4   a.   Explain about distribution models in detail.   **(12 Marks)**
   b.   Explain about composing map-reduce calculations.   **(08 Marks)**

Module-3

5   a.   Explain about Hadoop streaming and Hadoop pipes in detail.   **(12 Marks)**
   b.   Explain about HDFS design and its concepts.   **(08 Marks)**

OR

6   a.   Explain about file based data structure.   **(12 Marks)**
   b.   Explain about Avro.   **(08 Marks)**

Module-4

7   a.   Explain detail about anatomy of Mapreduce Job Run.   **(12 Marks)**
   b.   Explain about unit test with MR unit in detail.   **(08 Marks)**

OR

8   a.   Explain about YARN and job scheduling in MapReduce applications.   **(12 Marks)**
   b.   Explain about types of MapReduce.   **(08 Marks)**

Module-5

9   a.   Explain about Hbase clients and its example.   **(10 Marks)**
   b.   Explain about Cassandra data model and its example.   **(10 Marks)**

OR

10   a.   Explain about Pig data model in detail.   **(12 Marks)**
    b.   Explain about Hive QL data in detail and its Queries.   **(08 Marks)**

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