



CBCS SCHEME

18SCN252

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

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What are the 3 types of big data that are a big deal for market? Discuss briefly each of them. (10 Marks)
b. How big data analytics can help in detecting fraud? Explain with industry example. (10 Marks)

OR

- 2 a. What is crowd sourcing analytics? Explain. (06 Marks)
b. Explain Inter and Trans firewall analytics. (08 Marks)
c. Discuss the variety dimension of Big-data, what is structured, unstructured and semi-structured data? Explain with example. (06 Marks)

Module-2

- 3 a. Analyse the operation of Distributed file system and RDBMS. (08 Marks)
b. What is data aggregation? What are different data models used in No SQL? Give example and explain. (12 Marks)

OR

- 4 a. Write a short note on : (i) Sharding (ii) Materialized view. (12 Marks)
b. What are different ways of constructing version stamps? (08 Marks)

Module-3

- 5 a. Explain the following in brief (i) Hadoop streaming (ii) Dataflow. (08 Marks)
b. Write about design of (HDFS) Hadoop Distributed File System. (06 Marks)
c. Describe the different types of compression methods. (06 Marks)

OR

- 6 a. What is serialization and why it is needed? Explain the process of serialization and deserialization in Hadoop. (12 Marks)
b. Explain Map and reduce phase with an example. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-4

- 7 a. What are map reduce work flows and how a problem is decomposed into jobs by using Map reduce? Explain with an example. (10 Marks)
b. What is job scheduling? Explain fair scheduler and capacity scheduler. (10 Marks)

OR

- 8 a. Explain Job run and independent entities for a classic map reduce. (10 Marks)
b. Explain input format class hierarchy with a neat diagram. (10 Marks)

Module-5

- 9 Write a brief note on:
a. Pig. (06 Marks)
b. Live QL Data defination. (06 Marks)
c. PRAXIS. (08 Marks)

OR

- 10 a. Explain the concept of HBASE and its characteristics with brief explanation. (07 Marks)
b. Explain Grunt. (07 Marks)
c. Compare and contrast PIG and Databases. (06 Marks)
