



CBCS SCHEME

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Second Semester M.Tech. Degree Examination, Aug./Sept.2020

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. What is Big Data? Briefly discuss the significance of big data. (10 Marks)
b. Explain Credit Risk Management with the help of credit risk framework. (10 Marks)

OR

- 2 a. Briefly discuss the significance of Big data in healthcare domain. (10 Marks)
b. Write a note on :
i) Crowd Sourcing analytics ii) Inter and Trans Firewall analytics. (10 Marks)

Module-2

- 3 a. Differentiate SQL and NoSQL. (10 Marks)
b. Explain aggregate data model with an example. (10 Marks)

OR

- 4 a. Explain the importance of graph database with a neat diagram. (10 Marks)
b. Explain basic partitioning and combining Map reduce technique. (10 Marks)

Module-3

- 5 a. What is Hadoop Distributed File System? Explain its concepts. (10 Marks)
b. Explain the following in brief :
i) Hadoop streaming ii) Hadoop pipes. (10 Marks)

OR

- 6 a. Briefly discuss data integrity and compression with respect to Hadoop Input / Output. (10 Marks)
b. Explain Avro data types and Schemas with examples. (10 Marks)

Module-4

- 7 a. Explain Map reduce work flows. (10 Marks)
b. Explain four input formats in Hadoop. (10 Marks)

OR

- 8 a. Explain failures in Classic Map reduce ten YARN. (10 Marks)
b. Briefly discuss Task Execution Environment. (10 Marks)

Module-5

- 9 a. Explain HBASE data model. (10 Marks)
b. Explain Cluster , Key spaces and Columns with respect to Cassandra data model. (10 Marks)

OR

- 10 a. Briefly discuss data types , operators and functions in HiveQL. (10 Marks)
b. Briefly discuss structure , statements , expressions and types of Pig Latin. (10 Marks)

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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.