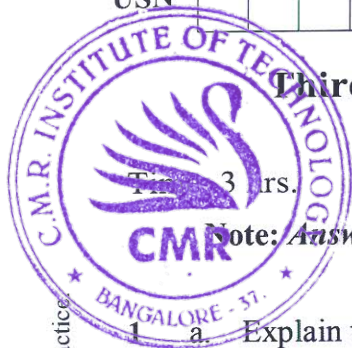


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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.



Third Semester MCA Degree Examination, Jan./Feb. 2023 Big Data Analytics

Max. Marks: 100

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

Module-1

- 1 a. Explain the various factors required for analytical model. (10 Marks)
b. Discuss the different example applications of analytics. (06 Marks)
c. Describe the different types of data elements. (04 Marks)

OR

- 2 a. Explain the different outlier detection and treatment methods. (08 Marks)
b. Explain the schemes to deal with missing values in dataset. (06 Marks)
c. Discuss different types of data sources. (06 Marks)

Module-2

- 3 a. Describe crowd sourcing analytics and its types, with examples. (10 Marks)
b. Compare old traditional business intelligence versus new big data approaches. (10 Marks)

OR

- 4 a. Explain predictive analytics and its trends in businesses. (10 Marks)
b. Write a note on:
i) Software as a Service BI
ii) Cloud computing and Big data. (10 Marks)

Module-3

- 5 a. Explain various features of Hadoop with its significance. (10 Marks)
b. Compare RDBMS versus MapReduce. (10 Marks)

OR

- 6 a. Compare Grid computing versus MapReduce. (10 Marks)
b. Explain Hadoop Ecosystem and its components. (10 Marks)

Module-4

- 7 a. Describe the characteristics of Namenodes and Datanodes with its importance. (10 Marks)
b. Explain HDFS High availability. (10 Marks)

OR

- 8 a. With a neat diagram, explain the anatomy of a file read. (10 Marks)
b. Explain the design of HDFS. (05 Marks)
c. Explain different Glof characters in Hadoop file system. (05 Marks)

Module-5

- 9 a. Explain MapReduce dataflow with a single reduce task and multiple reduce tasks. (10 Marks)
b. Explain GenericOptionsParser class with an example tool implementation in a program. (10 Marks)

OR

- 10 a. Write an example on Java MapReduce program to find maximum temperature from the weather data set. (10 Marks)
b. Explain Jobtracker Page in detail. (10 Marks)
