



CBGS SCHEME

16/17MCA452

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Fourth Semester MCA Degree Examination, Dec.2019/Jan.2020

Big Data Analytics

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. What is Big Data? Explain Analytics process model in brief. (08 Marks)
b. What is Analytics? Explain any 4 analytical model requirements. (08 Marks)

OR

- 2 a. Explain different types of Data Sources. (08 Marks)
b. Write short notes on : i) Visual Data Exploration ii) Missing values. (08 Marks)

Module-2

- 3 a. Write short notes on : i) Open Source Technology ii) Crowd sourcing. (08 Marks)
b. Explain predictive analytics in detail. (08 Marks)

OR

- 4 a. Explain Cloud and Big Data with guiding principles. (08 Marks)
b. Explain Inter and Transfirewall, with the help of neat diagram. (08 Marks)

Module-3

- 5 a. What is Hadoop? Give brief history of Hadoop. (08 Marks)
b. Compare Hadoop with i) RDBMS ii) Grid Computing. (08 Marks)

OR

- 6 a. Explain Hadoop ECO system and its components. (08 Marks)
b. With the help of a neat diagram, explain how client read and write data from HDFS. (08 Marks)

Module-4

- 7 a. Explain HDFS architecture, with a neat diagram. (08 Marks)
b. Explain Hadoop file system interface. (08 Marks)

OR

- 8 a. With an example, explain reading data from Hadoop URL and reading data from FileSystemAPI. (08 Marks)
b. With an example, explain the concept of writing data. (08 Marks)

Module-5

- 9 a. What is MapReduce? Explain working of various phases of MapReduce. (08 Marks)
b. Explain with a diagram, MapReduce Data flow with a single reduce task and multiple reduce task. (08 Marks)

OR

- 10 a. Explain Configuration API. (08 Marks)
b. With an example, explain Running a Job in a Local Job Runner. (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.