

CBCS SCHEME

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16MCA452

Fourth Semester MCA Degree Examination, Dec.2018/Jan.2019

Big Data Analytics

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain analysis process model, with a neat diagram. (04 Marks)
- b. List and explain the different example applications of analytics. (04 Marks)
- c. Explain different types of data sources and data elements. (08 Marks)

OR

- 2 a. List and explain the different schemes to deal with missing values. (04 Marks)
- b. Define the following:
 - i) Truncation
 - ii) Outlier
 - iii) Sampling
 - iv) Standardizing data (04 Marks)
- c. Explain the two important steps in dealing with outliers. (08 Marks)

Module-2

- 3 a. Define Hadoop. Explain the features and components of Hadoop. (08 Marks)
- b. Explain how Mobile Business Intelligence is going mainstream. (08 Marks)

OR

- 4 a. What is crowdsourcing analytics? Why is it needed? (08 Marks)
- b. Describe Inter and Trans Firewall analytics, with a neat diagram. (08 Marks)

Module-3

- 5 a. Briefly write the history of Hadoop. (08 Marks)
- b. List and explain briefly the different Hadoop projects. (08 Marks)

OR

- 6 a. Write a note on Hadoop releases. (08 Marks)
- b. Write short notes on:
 - i) Grid computing
 - ii) Volunteer computing (08 Marks)

Module-4

- 7 a. Explain the HDFS concepts:
 - i) Blocks
 - ii) Namenode and Datanode
 - iii) HDFS Federation
 - iv) HDFS High availability (08 Marks)
- b. Explain with a neat diagram, the sequence of events that takes place when writing a file to HDFS. (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.

OR

- 8 a. Write short note on Hadoop Archieves. (08 Marks)
b. Write the javascript for:
i) Displaying files from hadoop file system on standard output using URLStreamHandler
ii) Displaying file from hadoop filesystem on standard output twice by using seek (08 Marks)

Module-5

- 9 a. Describe how components in Hadoop are configured. (08 Marks)
b. Write a note on Hadoop streaming. (08 Marks)

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OR

- 10 a. Define Hadoop pipes. Write the source code for the map and reduce function in C++ to find maximum temperature. (08 Marks)
b. Write a note on Hadoop Logs. (08 Marks)
