USN | | | | | | | | | | **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)**

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)

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)

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