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16/17MCA452

Fourth Semester MCA Degree Examination, June/July 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 analytics process model with a neat diagram. **(07 Marks)**
   b. Explain the schemes to deal with missing values in dataset. **(04 Marks)**
   c. Discuss the different methods to standardize data. **(05 Marks)**

OR

2 a. List the satisfactory requirements of a good analytical model and explain. **(08 Marks)**
   b. Describe the various methods to categorise the data. **(08 Marks)**

Module-2

3 a. Explain open source technology for Big data analytics. **(08 Marks)**
   b. How do you say that mobile business intelligence is going mainstream in big data analytics? **(08 Marks)**

OR

4 a. How the Hadoop helps the organizations in solving structure and unstructured data. Explain. **(08 Marks)**
   b. Explain inter and trans – firewall analytics with a neat diagram. **(08 Marks)**

Module-3

5 a. Compare RDMBS technology with Hadoop MapReduce. **(08 Marks)**
   b. Write a note on Hadoop eco system. **(08 Marks)**

OR

6 a. Discuss how Mapreduce helps in processing large scale data compared with grid computing. **(08 Marks)**
   b. Write a note on history of Hadoop. **(08 Marks)**

Module-4

7 a. Discuss the factors considered for design of HDFS and which are areas where HDFS is not good fit today. **(06 Marks)**
   b. Explain how HDFS high availability helps to recover the data from failed name node. **(05 Marks)**
   c. Describe the sequence of events flow when client reading a file in HDFS, with a neat diagram. **(05 Marks)**

OR

8 a. What are the roles of Name node, Data node and secondary node? (06 Marks)
b. Describe the sequence of events flow when client writing data in HDFS? With a neat diagram. (10 Marks)

Module-5

9 a. Explain MapReduce data flow with single reduce task. (06 Marks)
b. Discuss the combiner function in MapReduce concept. (05 Marks)
c. Explain the three configuration files in developing Hadoop application. (05 Marks)

OR

10 a. Write a note on Input splits on Hadoop. (05 Marks)
b. Explain Hadoop pipes. (05 Marks)
c. How to debug a job using Hadoop features. (06 Marks)

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