Question Paper

MANIPAL ACADEMY OF HIGHER EDUCATION

SCHOOL OF INFORMATION SCIENCES (SOIS)
SECOND SEMESTER MASTER OF ENGINEERING- ME (COMPUTING TECHNOLIOGIES AND VIRTUALIZATION)
DEGREE EXAMINATION-APRIL 2018
Wednesday, April 25,2018
Time: 10:00am to 1:00pm
Big Data and Data Visualization [VIR 620]

Marks: 100   **Duration: 180 mins.**

Answer all the questions.

1) What are the various sources of Big Data? What are the considerations made in choosing appropriate and useful data?   (4+6 Marks)   (10)

2) Explain the Big Data Platform in a holistic approach with an example.   (10)

3) Explain these terms with an example with respect to Statistics.   (2.5 x 4 Marks)   (10)
    a. Variance   **b.** Range   **c.** Percentile
    d. Quartile

4) List the frequently used classes for the key/value pair with its description in MapReduce. Explain Mapper and Reducer function.   (4+6 Marks)   (10)

5) Write a note on the Admin API in HBase with various Methods and Description.   (10)

6) Briefly mention the features and uses of HBase? Compare the features of HBase with that of RDBMS.   (5+5 Marks)   (10)

7) What is Hive? Describe the working of Hive with a neat workflow.   (2+8 Marks)   (10)

8) What is Supervised and Unsupervised learning with respect to Machine Learning? Explain.   (10)

9) Explain the importance of using a Line Graph and Scatter Plot in Data Visualization with an example.   (10)

10) What is Predictive Analytics? Explain the process flow of Text Analytics and its applications.   (2+8 Marks)   (10)

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