Question Paper

Answer all the questions.

1) What are the different categories of Big Data? Explain how they are handled. (5+5) (10)

2) What is Data Analysis? Explain the various phases of Data Analysis. (2+8) (10)

3) What are the challenges faced in Real Time Data Processing? Explain. (10)

4) Explain these terms with an example with respect to Statistics.   (2.5X4) (10)
   a. Mean   **b.** Median   **c.** Mode
   d. Standard Deviation

5) What are the solutions proposed to address Big Data security and privacy challenges? (10)

6) What is MapReduce? Briefly explain the three stage execution of MapReduce program. (10)

7) Briefly explain the HDFS architecture with its elements using a block diagram. (10)

8) What is an HBase shell and how to start and stop the interactive HBase shell? (10)

9) Explain these terms with respect to Machine Learning applications.   (2.5X4) (10)

   a. Association Rule   **b.** Classification
   c. Pattern Recognition   **d.**

Knowledge Extraction

10) What is Data Visualization? Write a note on the [10] common Data types and Data Relationships.   (2+8)