

# CBCS SCHEME

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15CS82

## Eighth Semester B.E. Degree Examination, July/August 2021 Big Data Analytics

Time: 3 hrs.

Max. Marks: 80

**Note: Answer any FIVE full questions.**

- 1 a. What do you understand by HDFS? Explain its components with neat diagram. (08 Marks)  
b. Explain any eight user HDFS commands. (08 Marks)
- 2 a. Explain HDFS NAME NODE Federation , NFS Gateway , Check point and Backups , HDFS Snapshots. (08 Marks)  
b. With a neat diagram, explain Apache Hadoop parallel Map Reduce data flow. (08 Marks)
- 3 a. Explain the structure of Yarn Application. (08 Marks)  
b. With a neat diagram, explain Yarn Application Framework. (08 Marks)
- 4 a. Explain Apache Squoop Import and Export method. (08 Marks)  
b. Explain Apache Ambasi service view of a Hadoop Cluster. (08 Marks)
- 5 a. Briefly explain Business Intelligence. Explain Business Intelligence Data Mining Cycle with diagram. (08 Marks)  
b. Write any four Business Intelligence Application for various sectors. (08 Marks)
- 6 a. Explain important Data Mining Techniques. (08 Marks)  
b. What do you understand by Data Visualization? List and describe the various charts used for data visualization. (08 Marks)
- 7 a. Describe the advantages and disadvantages of using Regression Models. (08 Marks)  
b. Explain Decision tree and write the algorithm to construct decision tree. (08 Marks)
- 8 a. Explain design principles of Artificial Neural Network. (08 Marks)  
b. Explain Regression. List key steps of Regression. (04 Marks)  
c. Explain Apriori Algorithms. (04 Marks)
- 9 a. Explain briefly types of Web Mining Techniques. (08 Marks)  
b. Explain different Text Mining Application. (08 Marks)
- 10 a. Discuss the application and practical consideration of Social Network Analysis. (08 Marks)  
b. What is Support Vector Machine? Explain its model. (08 Marks)

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