

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - V Computer Science & Engineering AI & ML : WINTER : 2024**  
**SUBJECT: BIG DATA ANALYTICS**

Day : Wednesday  
Date : 04/12/2024

W-23961-2024

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data **WHEREVER** necessary.
- 4) Draw neat diagrams **WHEREVER** necessary.

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- Q.1** Define Bigdata compare it with traditional data. (10)  
OR
- Q.1** What are the characteristics features and various applications of Bigdata? (10)
- Q.2** Draw and explain Architecture of Hadoop HDFS with its features. (10)  
OR
- Q.2** Write a pseudo code for Matrix Vector Multiplication by Mapreduce. Illustrate with an example showing all the steps. (10)
- Q.3** Describe Data Analysis using R. (10)  
OR
- Q.3** List out various clustering methods and explain any one in detail with pros and cons. (10)
- Q.4** What is real time analytics platform with its applications? (10)  
OR
- Q.4** Explain case study of Stock Market Prediction in detail. (10)
- Q.5** Explain Clustering and Classification in details. (10)  
OR
- Q.5** What is Naïve Bayes classifier? Explain the Naïve Bayes algorithm with a suitable example. (10)
- Q.6** Explain Hbase Data Model and implementation in details. (10)  
OR
- Q.6** Explain Pigdata model with an example. (10)

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