

Code No.: AI732PE

R20

H.T.No.

8

R

**CMR ENGINEERING COLLEGE: : HYDERABAD**  
**UGC AUTONOMOUS**

**IV–B.TECH–I–Semester End Examinations (Supply) – April - 2025**

**BIG DATA ANALYTICS**

**(CSM)**

**[Time: 3 Hours]**

**[Max. Marks: 70]**

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART-A**

**(20 Marks)**

1. a) Differentiate between Big data and data mining. [2M]
- b) Describe Latin square design. [2M]
- c) Distinguish HDFS and Map reduce. [2M]
- d) Define Spark and scala? [2M]
- e) Define descriptive statistics. [2M]
- f) How to detect outliers? [2M]
- g) Differentiate supervised and un supervised learning. [2M]
- h) Define K means algorithm. [2M]
- i) Define Qlickview. [2M]
- j) List things to prepare a data for visualization. [2M]

**PART-B**

**(50 Marks)**

2. Explain the data design architecture and its components. [10M]
- OR**
3. Explain the factors constituting healthy living. [10M]
4. Explain in detail the architecture of Hadoop. [10M]
- OR**
5. What is the importance of Knowledge management. [10M]
6. Explain the transformation of relational databases to big data. [10M]
- OR**
7. Explain Descriptive analytics in Big Data analytics. [10M]
8. Describe the multiple analytical methodologies. [10M]
- OR**
9. What are steps followed in Machine Learning Algorithm? [10M]
10. What is the role of Tableau in Data Visualization? [10M]
- OR**
11. Explain Data Analysis and modeling. [10M]

\*\*\*\*\*