

Code No.: AI732PE

R20

H.T.No.

8 R

CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–I–Semester End Examinations (Supply) – December - 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) Define Data Management. [2M]
- b) What is workplace safety? [2M]
- c) List the features of Spark. [2M]
- d) Define knowledge management. [2M]
- e) What are the types of Big Data Analytics? [2M]
- f) Define outlier. [2M]
- g) Differentiate between Supervised and Unsupervised learning algorithms. [2M]
- h) What is hypothesis testing? [2M]
- i) What is the role of workspace in Tableau? [2M]
- j) Define data visualization. [2M]

PART-B

(50 Marks)

2. Discuss various sources of data with suitable example. [10M]
- OR**
3. Describe the guide lines for identifying and reporting an accident or emergency in detail. [10M]
4. a) Discuss the significance Hadoop in Data Analytics. [5M]
- b) Compare compliances and reporting in Analytics. [5M]
- OR**
5. Discuss in detail about Decision Models. [10M]
6. a) How do you understand the nature of the data? [5M]
- b) Explain about Predictive Analytics. [5M]
- OR**
7. Explain about Outlier detection and elimination. [10M]
8. Discuss in detail about Hypothesis Testing in detail. [10M]
- OR**
9. Explain train model on 2/3 sample data using various statistical algorithms. [10M]
10. Explain Data Visualization in Tableau. [10M]
- OR**
11. Illustrate the steps involved in production Implementation. [10M]
