

Code No.: R22CS701PC

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–I–Semester End Examinations (Regular) - December- 2025

BIG DATA ANALYTICS

(CSE)

[Time: 3 Hours]

[Max. Marks: 60]

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

Part A is compulsory which carries 10 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

(10 Marks)

1. a) What are the benefits of Big data analytics? [1M]
- b) List any two Applications of Big data. [1M]
- c) What is the role of cloud computing in Big data? [1M]
- d) Write any Open source Technologies for Big data. [1M]
- e) What is Hadoop? Explain its main purpose. [1M]
- f) Explain the need for Hadoop in Big data processing. [1M]
- g) What are the main advantages of using Hive? [1M]
- h) What is the role of Data Node in Hadoop? [1M]
- i) What are the different types of analytics? [1M]
- j) How does R handle large datasets? [1M]

PART-B

(50 Marks)

2. List and Explain characteristics of big data. Illustrate by considering an example of E-commerce how big data is used. [10M]

OR

3. Elaborate the significance of the four V's with examples in the context of Big Data. [10M]

4. With neat diagram, explain Hadoop main components and ecosystem components. [10M]

OR

5. What are the major steps in implementing a Mobile BI solution? Explain in detail. [10M]

6. Explain the steps involved in moving data in and out of Hadoop. [10M]

OR

7. Describe MapReduce Execution steps with a neat sketch. [10M]

8. With a neat diagram, describe HDFS architecture and flow steps. [10M]

OR

9. Discuss the features of Hadoop HDLC and also Explain the functions of Name Node and Data Node. [10M]

10. What are some popular machine learning techniques? Explain with examples. [10M]

OR

- 11.a) Compare Mobile Analytics with Big data. [5M]
- b) Explain social media Analytics. [5M]
