

CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

III–B.TECH–II–Semester End Examinations (Regular) - June- 2025

BIG DATA ANALYTICS

(CSD)

[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) Why Big Data is important? [1M]
- b) Name the four V's of Big Data. [1M]
- c) Summarize the features of Hadoop. [1M]
- d) List out the applications of Predictive analytics. [1M]
- e) What are the main components of Hadoop? [1M]
- f) How does MapReduce work? [1M]
- g) State the purpose of Pig tool in Big Data. [1M]
- h) Differentiate name node and data node. [1M]
- i) Mention the advantages of collaborative filtering. [1M]
- j) Where do we use mobile analytics? [1M]

PART-B**(50 Marks)**

2. Define Big Data. Discuss the drivers for Big Data. [10M]
- OR**
3. Assess the applications of Big Data analytics. [10M]
4. Outline the role of open-source technology for Big Data analytics. [10M]
- OR**
5. Infer the impact of cloud computing on Big Data. [10M]
6. Demonstrate the mechanism for moving data in and out of Hadoop. [10M]
- OR**
7. Why data serialization is important in Hadoop? Interpret the tasks of data serialization in Hadoop. [10M]
8. Examine the procedure for a client writing data to HDFS. [10M]
- OR**
9. Elaborate the architecture of HDFS with a neat diagram. [10M]
10. How to perform Big Data analytics using R? Describe with suitable examples. [10M]
- OR**
11. Interpret the key aspects and benefits of social media analytics. [10M]
