

Code No.: DS702PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV-B.TECH-I-Semester End Examinations (Supply) - April- 2024
BIG DATA ANALYTICS
(CSD)

[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) Discuss the types of Data Analytics. [2M]
- b) What is Hadoop Ecosystem? [2M]
- c) What is the need of MapReduce model? [2M]
- d) Define Data Flow. [2M]
- e) Define Shuffle and sort phases MapReduce. [2M]
- f) What are the types of MapReduce formats? [2M]
- g) Define PIG. [2M]
- h) Define HiveQL. [2M]
- i) What are the types of NoSQL Database? [2M]
- j) Define MongoDB. [2M]

PART-B

(50 Marks)

2. Illustrate the Hadoop core components with neat diagram. [10M]
- OR**
3. Define Big Data. Explain the Evolution of Big Data and their characteristics. [10M]
4. Define Command Line Interface using HDFS files and give a brief note on Hadoop-specific file system types and HDFS commands. [10M]
- OR**
5. Explain the developing MapReduce Application. [10M]
6. Explain an anatomy of a MapReduce. [10M]
- OR**
7. Explain the technique which is used to optimize the map reduce jobs. [10M]
8. Explain the working of Hive Data Manipulation Language in detail. [10M]
- OR**
9. Describe in brief about PIG commands. [10M]
10. What is NoSQL? What are the advantages of NoSQL? And Explain types of NoSQL Databases? [10M]
- OR**
11. Explain the functions of MongoDB query language and database commands. [10M]
