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**GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (AUTONOMOUS)**

Madhurawada, Visakhapatnam

Affiliated to JNT University – K, Kakinada

B.Tech VI Semester Regular Examinations, May 2023**Big Data Analytics****(Professional Elective-II)****(Common to CSE and CSE-AI & ML)****Date: 17-05-2023****Time: 3 Hours****Max. Marks: 70**

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1. Answer ONE Question from each UNIT
 2. All parts of a Question must be answered at one place to get valued.
 3. All questions carry equal marks.
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UNIT-I

1. a) What is Big Data? What are the developments and challenges of Big Data. 7 Marks
- b) Explain about cloud computing preliminaries. How cloud computing is related to Big Data. 7 Marks
2. a) List and Explain features of Big Data in detail. 7 Marks
- b) Discuss IOT preliminaries. Explain the relation between IOT and Big Data 7 Marks

UNIT-II

3. a) Explain Hadoop Architecture with neat sketch. 7 Marks
- b) What is RDD? Explain general operations of RDD. 7 Marks
4. a) What is Hive shell? Explain Hive services and Hive metastore. 7 Marks
- b) List and explain various common Hadoop shell commands with example. 7 Marks

UNIT-III

5. a) Discuss in detail about Data pre-processing in Big Data. 7 Marks
- b) Explain about Data Acquisition and Data collection in Big Data. 7 Marks
6. a) Explain the storage mechanism for Big Data. 7 Marks
- b) Write about Database Technology and Design Factors in Big Data. 7 Marks

UNIT-IV

7. a) Explain the Architecture of Big Data with neat sketch. 7 Marks
- b) Distinguish between real time and offline analysis. 7 Marks
8. a) Compare Big Data analysis with any four traditional data analysis techniques. 7 Marks
- b) List and explain the tools are required for Big Data Mining and Analysis. 7 Marks

UNIT-V

9. a) Discuss about applications of Big Data in Enterprise. 7 Marks

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b) Explain the following 7 Marks
a) Structure Data Analysis b) Text Data Analysis

10. a) Explain the following 7 Marks
a) Multimedia Data Analysis b) Network Data Analysis.

b) Discuss about applications of Big Data in Healthcare and Medical. 7 Marks