

Code No.: IT701PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023
DATA ANALYTICS
(IT)

[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) How is data quality determined? [2M]
- b) What is the objective of Data Processing? [2M]
- c) Compare discrete and continuous variables. [2M]
- d) List some applications of Data Analytics? [2M]
- e) Compare Linear Regression and Logistic Regression. [2M]
- f) What is Root Mean Squared Error? Why it is used? [2M]
- g) What is supervised learning? Why it is used? [2M]
- h) What is meant by prediction? [2M]
- i) Define Data Visualization. [2M]
- j) What is the bar plot? [2M]

PART-B

(50 Marks)

2. Explain in detail about the types of data sources in the process of data collection. [10M]
- OR**
3. Explain about data preprocessing in detail. [10M]
4. What is Data Modeling? What are its uses? Explain in detail about data modeling techniques. [10M]
- OR**
5. Explain in detail about Data Imputations. [10M]
6. Explain the concept of logistic regression in detail. [10M]
- OR**
7. Discuss about the BLUE property of Regression. [10M]
8. Explain classification by providing suitable examples. Compare it with regression. [10M]
- OR**
9. Give a note on ARIMA. What are the measures of forecast accuracy? Explain. [10M]
10. Explain in detail about Icon based visualization techniques. [10M]
- OR**
11. Explain about Hierarchical visualization techniques. [10M]
