

Code No.: DS403PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
II-B.TECH-II-Semester End Examinations (Supply) - February- 2023
INTRODUCTION TO 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) What is conceptual model? [2M]
- b) Define outlier. [2M]
- c) Define data analytics. [2M]
- d) What is categorical data? Give example. [2M]
- e) Define dependent and independent variable. [2M]
- f) Define linear regression. [2M]
- g) What is supervised learning? [2M]
- h) List the applications of Time series methods. [2M]
- i) Define data visualization. [2M]
- j) Write the drawbacks of pixel-oriented visualization technique. [2M]

PART-B

(50 Marks)

2. Explain about the design of data architecture with a neat sketch. [10M]
OR
3. a) Discuss various sources of data. [5M]
- b) How to manage the outliers in data? Explain. [5M]
4. Discuss applications of modeling in business. [10M]
OR
5. Explain Missing Imputation methods in detail with examples. [10M]
6. What is least square estimate? Illustrate its importance in regression modeling. [10M]
OR
7. Apply logistic regression to demonstrate binary classification. [10M]
8. Explain decision tree classification with example. [10M]
OR
9. How do you forecast using STL? Explain with example. [10M]
10. Briefly explain various data visualization techniques. [10M]
OR
11. Explain the challenges in visualizing complex data and relations and suggest suitable mechanisms to address them. [10M]
