CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS
IV–B.TECH–I–Semester End Examinations (Supply) - April- 2024
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) Which source of data is more reliable and why? [2M]
   b) What are the three levels of designing the Architecture? [2M]
   c) Distinguish between categorical and nominal data. [2M]
   d) What is the need for business data modeling? [2M]
   e) Distinguish between linear and Logistic regression. [2M]
   f) What is Least squares estimation in regression? [2M]
   g) Define STL approach. [2M]
   h) Discuss about Decision Trees? [2M]
   i) Why do we use Data Visualization? [2M]
   j) Explain different types of Data Visualization Tools. [2M]

PART-B   (50 Marks)

2. Discuss about various sources of primary and secondary data. [10M]

OR

3.a) Explain in detail various data preprocessing techniques. [5M]
  b) How can we measure quality of data explain with example? [5M]

4. Summarize Tools and environment for Data Analytics. [10M]

OR

5.a) Explain various types of data and variables? [5M]
  b) Explain in detail about Data Modeling Techniques. [5M]

6. Elaborate variable rationalization and Model Building. [10M]

OR

7.a) Explain Blue Property Assumptions in detail? [5M]
  b) List out Analytical applications to various business domains. [5M]

8.a) Compare Regression and Segmentation? [5M]
  b) Explain time series analysis with example. [5M]

OR

9. Discuss about Tree Building in detail. [10M]

10. Explain different visualization techniques in detail? [10M]

OR

11. What is data visualization, how it is important and also brief about visualizing Complex data and relations. [10M]

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