

Code No: 155AT

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, January/February - 2023****DATA ANALYTICS****(Computer Science and Engineering - Networks)****Time: 3 Hours****Max. Marks: 75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

**PART – A****(25 Marks)**

- 1.a) What do you mean by data management? [2]
- b) How the data is collected from GPS? [3]
- c) Define predictive mean matching. [2]
- d) What do you mean by data modeling? [3]
- e) Define linear regression. [2]
- f) What are blue property assumptions? [3]
- g) Define overfitting. [2]
- h) What are time series methods? [3]
- i) Define complex data. [2]
- j) What is the role of Tableau in Data Visualization? [3]

**PART – B****(50 Marks)**

2. List and explain the steps involved in the processing of the data. [10]
- OR**
3. Explain the various factors involved in checking the quality of data. [10]
4. With a neat diagram, explain the various steps involved in analytics. [10]
- OR**
5. Explain the concept of databases and type of data and variables used in data analytics. [10]
6. Construct the model of logistic regression with the help of an example. [10]
- OR**
7. Describe in detail about the least square estimation in regression model. [10]
8. Compare and contrast between supervised and unsupervised learning. [10]
- OR**
9. Show the process of building a classification and regression tree using decision trees. [10]
10. Explain the pixel-oriented visualization technique with the help of an example. [10]
- OR**
11. Demonstrate the example to explain the concept of Icon based Visualization Techniques. [10]