

Code No: 155AT**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, February - 2022****DATA ANALYTICS****(Common to CSE, IT)****Time: 3 hours****Max. Marks: 75**

Answer any five questions
All questions carry equal marks

1. Market researchers have used four experimental designs for generating primary data. Describe them in detail. [15]
2. Explain about data quality and data preprocessing. [15]
3. Demonstrate the various steps involved in data analytics and discuss the tools and environment needed for analytics. [15]
4. Explain how data imputation can be performed. [15]
- 5.a) Discuss the best unbiased linear estimator property of regression.
b) Demonstrate ordinary least square estimation. [7+8]
6. Elucidate analytical applications to various business domains. [15]
- 7.a) What is ETL? List the commercially available ETL tools.
b) Demonstrate ARIMA for time series data. [7+8]
8. How to perform visualization of the data using a hierarchical partitioning into subspaces? Explain with examples. [15]

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