

Code No: 155AT**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, March - 2021****DATA ANALYTICS****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75**

Answer any five questions
All questions carry equal marks

- 1.a) What are hazards? Explain potential sources of hazards in an organization. [8+7]
b) What are model-based techniques? Explain. [8+7]
- 2.a) Explain about analytics applications to various business domains. [8+7]
b) Distinguish between supervised and unsupervised learning. [8+7]
- 3.a) Describe measures of forecast accuracy. [8+7]
b) Explain about direct visualization and hyperslice. [8+7]
- 4.a) Why preprocess the data? Explain in detail. [8+7]
b) Explain about variable rationalization with examples. [8+7]
- 5.a) Explain in detail about need for business modeling. [8+7]
b) What is STL approach? Explain in detail. [8+7]
- 6.a) What is wrong with linear regression? Explain logistic regression. [8+7]
b) Discuss about dimensional stacking and tree-map. [8+7]
- 7.a) Explain about various sources of data in detail. [8+7]
b) Discuss in detail about visualizing complex data and relations. [8+7]
8. Explain the following:
a) Apache Spark
b) Arima
c) Data visualizations [5+5+5]

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