

**Code No: 155AT****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year I Semester Examinations, September - 2021****DATA ANALYTICS****(Common to CSE, IT)****Time: 3 hours****Max. Marks: 75****Answer any five questions****All questions carry equal marks**

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1. Explain about various constraints and influences that will affect data architecture design. [15]
2. Briefly describe various sources of data like sensors, signals, GPS in data management. [15]
3. Discuss various data analytics techniques with examples. [15]
4. Enumerate your views and observations on different data modelling techniques. [15]
5. Test for the 'least square estimation' with appropriate case study. [15]
6. 'Logistic regression is an example of non-linear regression' prove the statement with suitable case study and experiment. [15]
7. Briefly construct the following decision tree algorithms.  
a) CART  
b) C4.5 [8+7]
8. Interpret on 'pixel-oriented visualization' with example. [15]

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