



23002939

QP CODE: 23002939		Reg No	:
		Name	:

M Sc DEGREE (CSS) EXAMINATION, MARCH 2023

Third Semester

Faculty of Science

M Sc COMPUTER SCIENCE (DATAANALYTICS)

CORE - CA030302 - EXPLORATORY DATA ANALYTICS FOR NLP

2019 ADMISSION ONWARDS

4321FC03

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. Differentiate between computational linguistics and natural language processing.
2. Explain any five POS tags in NLP.
3. What is the use of FreqDist?
4. List the four open source tools available for EDA
5. Name the types of charts that can be used to show correlation and deviation. Suggest four types for each.
6. Create a dataframe that records the rainfall, humidity, and wind conditions of five different cities A,B,C,D. Pivot the columns into rows to produce a series.
7. What do you mean by Missing values? Explain any two types with help of an example.
8. Explain the benefits of data transformation in detail.





9.	How to create multiple linear regression model
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10.	What is machine learning?
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(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11.	Differentiate the three themes in natural language processing?
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12.	What do you mean by decision plot?
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13.	Describe the various steps involved in data analysis
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14.	How to display the basic information of a numpy array? Explain with an example
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15.	what do you mean by discretization and binning?
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16.	What do you mean by pivot table?
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17.	Briefly explain the different types of parameters in hypothesis testing
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18.	Differentiate between supervised and unsupervised learning
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(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19.	Explain Automatic Natural language understanding.
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20.	Explain a) Classification of dataset b) Measurement scales
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21.	Discuss in detail a)Data transformation activities. b)Steps in data transformation
22.	Explain in detail about Regression Analysis.
(2×5=10 weightage)	

