

data.

(c) The data that is collected from the place of origin is known as tertiary data

(d) None of the above

- 1-d. RDBMS follows:(CO2) 1
- (a) Structured Data
 - (b) Un structured Data
 - (c) Semi Structured Data
 - (d) None of the above
- 1-e. Examples of Nominal can be: (CO3) 1
- (a) ID Numbers, eye color, zip codes
 - (b) Rankings, grades, height
 - (c) Calendar dates, phone numbers
 - (d) length, time, counts
- 1-f. Why do we need feature transformation?(CO3) 1
- (a) Converting non-numeric features into numeric
 - (b) Resizing inputs to a fixed size
 - (c) Both A and B
 - (d) None
- 1-g. What is the role of exploratory graphs in data analysis? (CO4) 1
- (a) They are made for formal presentations
 - (b) They are typically made very quickly
 - (c) Axes, legends, and other details are clean and exactly detailed
 - (d) They are used in place of formal modeling
- 1-h. Discriminative learning algorithm include.....(CO4) 1
- (a) Continuous regression
 - (b) Logistic regression
 - (c) Linear regression
 - (d) None of the above
- 1-i. What are the file extensions in Tableau ? (CO5) 1
- (a) Tableau Packaged Workbook (.twbx)
 - (b) Tableau Data Source(.tds)
 - (c) Tableau Workbook (.twb)
 - (d) All the above

- 1-j. The most popular data visualization library in python is ____ (CO5) 1
- (a) matplotlib
 - (b) matplotlib
 - (c) matplotlib
 - (d) pip

2. Attempt all parts:-

- 2.a. Explain the concept of Data. (CO1) 2
- 2.b. Describe secondary source of data. (CO2) 2
- 2.c. Explain the concept of data Clustering. (CO3) 2
- 2.d. Explain some data wrangling techniques (CO4) 2
- 2.e. How can we improve the performance of Tableau. justify your answer with suitable example (CO5) 2

SECTION B

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3. Answer any five of the following:-

- 3-a. Explain why is Big Data Important? (CO1) 6
- 3-b. Describe the libraries in Python used for Data Analysis and Scientific Computations. (CO1) 6
- 3-c. Differentiate between categorical data and numerical data. (CO2) 6
- 3-d. How to handle high dimensional data? (CO2) 6
- 3.e. Describe the various steps of data cleaning. (CO3) 6
- 3.f. Differentiate between feature selection and feature extraction. (CO4) 6
- 3.g. State some reasons for the low performance of Tableau? Explain in detail. (CO5) 6

SECTION C

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4. Answer any one of the following:-

- 4-a. Explain the steps use in Data Analysis. (CO1) 10
- 4-b. Explain how Amazon helps in transforming e-commerce with Data Science. (CO1) 10

5. Answer any one of the following:-

- 5-a. Describe dimensionality. Explain high dimensional data with examples. (CO2) 10
- 5-b. Why do we need data collection? Explain five common ways for the collecting data? (CO2) 10

6. Answer any one of the following:-

6-a. Describe some common problems that occur during data processing? How can they be fixed? (CO3) 10

6-b. Describe Qualitative and Quantitative attributes.(CO3) 10

7. Answer any one of the following:-

7-a. Explain the Principle Component Analysis (PCA) technique. (CO4) 10

7-b. Differentiate between mean, median and mode. How are these terms used to impute missing values in numeric variables? (CO4) 10

8. Answer any one of the following:-

8-a. Why Stacked Bar chart are used in Tableau? Explain its advantages. (CO5) 10

8-b. Explain the sorting and filtering steps in Tableau. (CO5) 10

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