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\*\*Visualising Data\*\*

\*\*Answer the following:\*\*

1. What is Data?

2. What are the different types of data in Statistics?

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\*\*Answer the following:\*\*

1. What is Data Analysis? What are the different steps we need to follow for the same?

2. What is Data Presentation? Explain different types of Data presentation.

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\*\*Answer the following:\*\*

1. For which kind of Data can we use Boxplot and Scatter plot? Explain with an example.

2. What is the difference between 1D and 2D scatter plots?

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\*\*Characterising Data (Descriptive Statistics)\*\*

\*\*Answer the following:\*\*

1. What is the difference between population and a sample?

2. What is the difference between inferential and descriptive statistics?

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\*\*Answer the following:\*\*

1. What is the significance of Exploratory Data Analysis (EDA)?

2. What are Skewness and Kurtosis?

3. What is an Outlier?

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\*\*Solve the following:\*\*

A set of samples have been collected from a larger sample and the sample mean values are 12.8, 10.9, 11.4, 14.2, 12.5, 13.6, 15, 9, 12.6.

Find the population mean.

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\*\*Predicting from Data (Inferential Statistics)\*\*

\*\*Answer the following:\*\*

1. What is Hypothesis Testing?

2. Explain T-test and Z-test with formulas?

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\*\*Solve the following:\*\*

1. Imagine that Jeremy took part in an examination. The test has a mean score of 160 and a standard deviation of 15. If Jeremy’s z-score is 1.20, what would be his score on the test?

2. A telecom service provider claims that individual customers pay an average of 400 Rs. per month with a standard deviation of 25 Rs. A random sample of 50 customer bills during a given month is taken with a mean of 250 and standard deviation of 15. What can be said with respect to the claim made by the service provider?

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\*\*Craft your Data\*\*

\*\*Answer the following:\*\*

1. What are the common problems that data analysts encounter during analysis?

2. What are the best methods for data cleaning?

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\*\*Answer the following:\*\*

1. What are your strengths and weaknesses as a data analyst?

2. How can you handle missing values in a dataset?

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If you need help answering any of these questions, feel free to ask!