

Statistics Worksheet-1 Answers

Q1.

Ans.:- a) True

Q2.

Ans.:- a) Central Limit Theorem

Q3.

Ans.:- b) Modeling bounded count data

Q4.

Ans.:- d) All of the mentioned

Q5.

Ans.:- c) Poisson

Q6.

Ans.:- a) True

Q7.

Ans.:- b) Hypothesis

Q8.

Ans.:- a) 0

Q9.

Ans.:- d) None of the mentioned

Q10.

Ans.:- A normal distribution is a statistical phenomenon representing a symmetric bell-shaped curve. It is symmetrically distributed with no skew.

Q11.

Ans.:- 1. Deleting Rows with missing values

1. Impute missing values for continuous variable
2. Impute missing values for categorical variable
3. Other Imputation Methods
4. Using Algorithms that support missing values
5. Prediction of missing values
6. Imputation using Deep Learning Library

Q12.

Ans.:- A/B testing is a term for comparing two versions of a webpage or app against each other to determine which one performs better.

Q13.

Ans.:- Mean imputation does not preserve the relationships among variables. Mean imputation leads to An Underestimate of Standard Errors.

Q14.

Ans.:-Linear regression is a regression model that estimates the relationship between one independent variable and one dependent variable using a straight line. Both variables should be quantitative.

Q15.

Ans.:-

1. Descriptive Statistics
 - a. Central Tendency (Mean, Median & Mode)
 - b. Dispersion of data (range, Variance, standard deviation, percentile & skew)
2. Inferential Statistics
 - a. Hypothesis testing (Z Score, T score, regression test, chi square test , Anova...)