

STATISTICS WORKSHEET-1

Q1 to Q9 have only one correct answer. Choose the correct option to answer your question.

1. Bernoulli random variables take (only) the values 1 and 0.
a) True
2. Which of the following theorem states that the distribution of averages of iid variables, properly normalized, becomes that of a standard normal as the sample size increases?
a) Central Limit Theorem
3. Which of the following is incorrect with respect to use of Poisson distribution?
b) Modeling bounded count data
4. Point out the correct statement.
d) All of the mentioned
5. _____ random variables are used to model rates.
c) Poisson
6. 10. Usually replacing the standard error by its estimated value does change the CLT.
b) False
7. 1. Which of the following testing is concerned with making decisions using data?
b) Hypothesis
8. 4. Normalized data are centered at _____ and have units equal to standard deviations of the original data.
a) 0
9. Which of the following statement is incorrect with respect to outliers?
c) Outliers cannot conform to the regression relationship

Q10 and Q15 are subjective answer type questions, Answer them in your own words briefly.

10. What do you understand by the term Normal Distribution?

It is a function that specifies how the values of a variable are distributed

11. How do you handle missing data? What imputation techniques do you recommend?

The imputation method develops reasonable guesses for missing data. Mean, Median and Mode methods are recommended.

12. What is A/B testing?

13. Is mean imputation of missing data acceptable practice?

The mean imputation of missing data is an acceptable practice; however, it isn't a good idea as the mean is sensitive to data noise like outliers.

14. What is linear regression in statistics?

Linear regression shows the linear relationship between two variables

15. What are the various branches of statistics?

Descriptive Statistics
Inferential Statistics

 **FLIP ROBO** **FLIP ROBO**
