STATISTICS WORKSHEET-1

1. Bernoulli random variables take (only) the values 1 and 0

Ans 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

Ans) Central Limit Theorem

3 Which of the following is incorrect with respect to use of Poisson distribution?

Ans b) Modeling bounded count data

4 Point out the correct statement.

Ans) All of the mentioned

5 _____ random variables are used to model rates.

Ans c) Poisson

6 Usually replacing the standard error by its estimated value does change the CLT.

Ans) True

7. 1. Which of the following testing is concerned with making decisions using data?

Ans b) Hypothesis

8. Normalized data are centered at_____and have units equal to standard deviations of the original data.

Ans a) 0

9 Which of the following statement is incorrect with respect to outliers

Ans c) Outliers cannot conform to the regression relationship

10 What do you understand by the term Normal Distribution

Ans Normal distribution is a probability distribution that is symmetric about the mean

Its reality most pricing distributions are not perfectly normal.

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

Ans Multiple imputation is considered a good approach for data sets with a large amount of missing values are exchanged for values that encompass the natural variability and uncertainty of the right values .

Three methods are highly respected for their ability to improve data quality (learn more Regression imputation ,predictive mean ,maching ,hot deck imputation)Regression imputation and hot deck imputation seem to have inreased their popularity

12 What is A/B testing?

Ans A/B testing is a user experience research methodology.

13 Is mean imputation of missing data acceptable practice?

Ans Mean imputation of missing data is acceptable practice.

14 What is linear regression in statistics?

Ans Linear regression is a statistical modeling technique used to show the relationship between one dependent variable and one or more indepemdent variable.

15 What are the various branches of statistics?

Ans The two mean branches of statistics are descriptive statistics and inferential statistics.