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

a) True

b) False

2.Which of the following theorem states that the distribution of averages of iid variable ,properly normalized,becomes that of a standard normal as the sample size increases?

Central time Theorem

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

Modeling event/time data

Modeling bounded count data

Modeling contingency tables

All of the mentioned.

4.Point out the correct Statement.

The exponent of a normally distributed random variables follows what is called the log-normal distribution

B)Sums of normally distributed random variables are again normally distributed even if the variables are dependent

C)The square of a standard normal random variable follows what is called chi-squared distribution.

D) All the mentioned

5. \_\_\_\_\_\_\_\_\_\_ randomn variables are used to model rates

a) Empirical

b)Binomial

C)Poisson

D) All Of the mentioned

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

a).True

b)False.

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

a)Probability

b)Hypothesis

C)Causal

d) None of the these.

8. 4.Normalaized data are centered at \_\_\_\_\_\_\_ and have units equal to standard deviations of the Original data.

a)0

b)5

c)1

D) 10

9. Which of the following statement is incorrect with respect to outliners?

a)Outliers can have Varying degrees of influence.

B) Outliners cannot conform to the regression relationship.

10 What do you understand by the term Normal Distribution?

The normal distribution is also known as a Gaussian distribution or probability bell curve. It is symmetric about the mean and indicates that values near the mean occur more frequently than the values that are farther away from the mean.

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

The simplest imputation method is replacing missing values with the mean or median values of the dataset at large, or some similar summary statistic. This has the advantage of being the simplest possible approach, and one that doesn't introduce any undue bias into the dataset.

12. What is A/B testing?

A/B testing—also called split testing or bucket testing—compares the performance of two versions of content to see which one appeals more to visitors/viewers. It tests a control (A) version against a variant (B) version to measure which one is most successful based on your key metrics.

13. Is mean imputation of missing data acceptable practice.

In a single imputation method the missing data are filled by some means and the resulting completed data set is used for inference. Mean imputation (MI) is one such method in which the mean of the observed values for each variable is computed and the missing values for that variable are imputed by this mean.

14.What is linear regression in statistics?

Linear regression is a data analysis technique that predicts the value of unknown data by using another related and known data value. It mathematically models the unknown or dependent variable and the known or independent variable as a linear equation.

15. What are the various branches of statistics?

The two main branches of statistics are descriptive statistics and inferential statistics. Both of these are employed in scientific analysis of data and both are equally important for the student of statistics.