Statistics Worksheet – 1 (Answers)

Ans 1 : Option A) True

Ans 2 : Option A) Central Limit Theorem

Ans 3 : Option B) Modeling bounded count data

Ans 4 : Option D) All of the mentioned.

Ans 5 : Option C) Poisson

Ans 6 : Option B) False

Ans 7 : Option B) Hypothesis

Ans 8 : Option A) 0

Ans 9 : Option C) Outliers cannot conform to the regression relationship

Ans 10 : Normal Distribution is also Known as "Bell Curve" and is symmetric around the Mean and it is concentrated around the Mean. The Mean, Median and mode are almost similar.

Ans 11 : We can handle missing data by either *Deleting* or *Imputation*.

There are multiple Imputation techniques in practice such as Mean Imputation, Hot Deck and Cold Deck Imputation, Regression, Intrapolation and Extrapolation.

There are different sets of rules in place to determine which is the best strategy to use for the particular type of Missing values. The Best strategy is to perform some tests and determine which model works best for our datasets.

Ans 12 : A/B Testing is also referred to as Split Testing. Two groups are shown or experimented with 2 different versions of same set of data oberserving which version works better.

Ans 13 : No, Mean Imputation technique for Missing data is not an acceptable practice.

Ans 14 : Linear Regression is a Model where we can predict a value of one quantitative variable based on the other quantitative variable using a Straight line.

Ans 15 : There are two main branches of statistics :

        1. Descriptive Statistics
        2. Inferential Statistics.
        3. Data Collection (Some also consider this as a Branch).