## STATISTICS WORKSHEET-1

- 1 a) True
- 2 a) Central Limit Theorem
- 3 b) Modeling bounded count data
- 4 d) all of the mentioned
- 5 c) Poisson
- 6 b)false
- 7 b) Hypothesis
- 8 a) 0
- 9 c) outliers cannot confirm to the regression relationship
- 10 NORMAL DISTRIBUTION- A normal distribution is a bell shaped frequency distribution curve of a continuous random variable. In normal distribution mean=median=mode=0 and standard deviation is =+-1
- 11 Missing data can be dealt in a number of ways the most common is to ignore it. Another common way is imputations. Imputation is the process of substituting an estimate for missing values.

## **IMPUTATION TECNIQUES**

- 1 MEAN IMPUTATION
- **2 SUBSTITUTION**
- **3REGRESSION IMPUTATION**
- **4 STOCHASTIC REGRESSION IMPUTATION**
- 12 A/B testing also known as split testing is a methodology for comparing two versions of a web page or app against each other to determine which one performs better. It is essentially an experiment where two or more variants of a page are shown to users at random and statistical analysis is used to determine which variation performs better.
- 13 No,mean imputation of missing data is not acceptable practice because it ignores feature correlation and also mean imputation decreases the variance of our data while increasing bias, as a result of reduced variance the model is less accurate.
- 14 linear regression is defined as a statistical practice that provides a linear relationship between an independent variable and a dependent variable to predict the outcome of future events.
- 15 There are two branches of statistice
  - a) Descriptive statistics
  - b) Inferential statistics