# STATISTICS WORKSHEET-1

1. Bernoulli random variables take (only) the values 1 and 0.
   AnS: 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: Modeling bounded count data

4. Point out the correct statement.
   Ans: All of the mentioned

5. _____random variables are used to model rates.
   Ans: Poisson

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

7. Which of the following testing is concerned with making decisions using data?
   Ans: Hypothesis

8. Normalized data are centered at_____and have units equal to standard deviations of the original data.
   Ans: 0

9. Which of the following statement is incorrect with respect to outliers?
   Ans: Outliers cannot conform to the regression relationship

10. What do you understand by the term Normal Distribution?
    Ans: When the histogram of data show a bell shape curve, than its call data is normally distributed.

11. How do you handle missing data? What imputation techniques do you recommend?
    Ans: Using advanced imputation techniques.
    1. Simple imputation
    2. KNN imputation
    3. Interative imputation

12. What is A/B testing?
    Ans: It is a split testing, in which some data may be test in A version and some data in B version.

13. Is mean imputation of missing data acceptable practice?
    Ans: yes but in some case.

14. What is linear regression in statistics?
    Ans: y = c + m0x0 + m1x1 + m2*x2 + ……

15. What are the various branches of statistics?
    Ans: Descriptive and Inferential