

## ANSWERS FOR STATISTICS ASSIGNMENT

- 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 conform to the regression relationship
10. Normal distribution is a continuous probability distribution that is symmetrical about the mean, which means that data near the mean occurs more frequently than the one far from mean. When plotted as a graph, normal distribution resembles a bell shape curve.
11. We can treat the missing data by imputation techniques like knn imputer or iterative imputer or random forest with the help of decision trees.
- 12.A/ B Testing also known as Split testing is a way to compare two versions of a variable to find out which one performs better.
13. Mean Imputation is the process of replacing the missing data with the mean values and is not an acceptable practice as it ignores the correlation among the output or features.
14. Linear regression is a regression model to find the relationship between an independent variable and a dependent variable.
15. The branches of statistics are data collection, descriptive statistics and inferential statistics.