

1. a) True
2. a) Central Limit Theorem
3. b) Modelling 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 probability distribution that is symmetric about the mean, showing that data near the mean are more frequent in occurrence than data far from the mean. In graphical form, the normal distribution appears as a "bell curve".
11. 1) Replace missing values with the mean or median values of the dataset at large. 2) remove row or column that have null value. If in data more than half value is null then drop entire column.
12. A/B testing is a research method that compares two versions of variable to determine which is performance better.
13. True, imputing the mean preserves the mean of the observed data. So if the data are missing completely at random, the estimate of the mean remains unbiased.
14. Linear regression analysis is used to predict the value of a variable based on the value of another variable.
15. 1) Descriptive statistics 2) inferential statistics