Statistics worksheet

1) a) True
2) a) Central Limit Theorem
3) b) Modeling bounded count data
4) b) Sums of normally distributed random variables are again normally distributed even if the variables are dependent
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 symmetric towards the mean, implying that the data near the mean is more in number in comparison to data away from the mean.
11) Missing data can be dealt with Data deletion or Data imputation techniques. Reduced feature models, distribution-based imputation, prediction value imputation are some of the techniques used to deal with missing data.
12) A/B Testing is a randomized testing method using two different variables with the help of hypothesis testing.
13) It is not considered a s an ideal practice since it involves replacing the missing values with mean, which is sensitive to data noises like outliers.
14) It is a method in which a scattered diagram is used, by presenting independent variable on x and dependent variable on y axis.
15) Statistics can majorly be categorized into 2 branches

   a) Descriptive – This involves Organizing, summarizing & presenting that data
   b) Inferential – It involves drawing samples to draw certain conclusions about a given population.