STATISTICS WORKSHEET-3

ANSWERS:

1. (b) Total Variation = Residual Variation + Regression Variation
2. (c) binomial
3. (a) 2
4. (a) Type-I error
5. (d) Confidence coefficient
6. (a) decrease
7. (b) Hypothesis
8. (d) All of the mentioned
9. (a) 0
10. In probability, Bayes Theorem is a mathematical formula, which is used to determine the conditional probability of the given event. It could be used to make predictions about the weather.
11. A Z-score is a numerical measurement that describes a value's relationship to the mean of a group of values. Z-score is measured in terms of standard deviations from the mean. If a Z-score is 0, it indicates that the data point's score is identical to the mean score.
12. A t-test is an inferential statistic used to determine if there is significant difference between the means of two groups and how they are related.
13. Percentile or centile is a value or number that represents a percentage position on a range or list of data – the person or thing at that number of value is above that number in percentage.
14. ANOVA (Analysis Of Variance) is a collection of statistical models used to assess the differences between the means of two independent groups by separating the variability into systematic and random factors.
15. ANOVA can help to identify the sources of variation in a data set. This can help to improve the accuracy of data predictions and analyses. ANOVA can help to identify relationships between different variables in a data set. This information can be used to improve data models and predictions.