STATISTICS WORKSHEET-2

ANSWERS:

1. (b) Total Variation = Residual Variation + Regression Variation
2. C) Binomial
3. (a) 2
4. (a) Type-1 Error
5. (d) Confidence coefficient
6. (a) Decrease
7. (b) Hypothesis
8. (d) All of the mentioned
9. (a) 0
10. It is a way of finding a probability when we know certain other probabilities. According to Bayes' Theorem, the conditional probability of an event, based on the occurrence of another is equal to the probability of the second given the first event multiplied by probability of the same.
11. Z-score is a statistical tool which describes a value's relation to the mean of group of values.
12. T-test is a statistical test used to compare the means of 2 separate groups of data. It is of 2 types: 1 sample t-test and 2 sample t-test which is further divided into independent sample test and Paired sample test.
13. Percentile can be considered as a classification score between a particular score and scores of rest of the group. Example: If a student's marks is in 75th percentile it means their marks is better than 75% of the students.
14. ANOVA is another statistical tool which splits an observed variance data into different components for additional tests.
15. ANOVA is most helpful for 3 or more variables. It's similar to the 2 sample t-test but results in less type 1 errors.