STATISTICS WORKSHEET-3

# Q1 to Q9 have only one correct answer. Choose the correct option to answer your question.

1. Which of the following is the correct formula for total variation?

Total Variation = Residual Variation + Regression Variation

1. outcomes for the same covariate data are called outcomes.

binomial

1. How many outcomes are possible with Bernoulli trial?
   1. 2
2. If Ho is true and we reject it is called
   1. Type-I error
3. Level of significance is also called:

Level of confidence

1. The chance of rejecting a true hypothesis decreases when sample size is:

Increase

1. Which of the following testing is concerned with making decisions using data?

Hypothesis

1. What is the purpose of multiple testing in statistical inference?

All of the mentioned

1. Normalized data are centred at and have units equal to standard deviations of the original data
   1. 0

# Q10and Q15 are subjective answer type questions, Answer them in your own words briefly.

1. What Is Bayes' Theorem?

It is used to describes the probability of occurrence of an event related to any condition

1. What is z-score

A Z-score is a numerical measurement that describes a value's relationship to the mean of a group of values.measured in the standard deviation

1. What is t-test?

A t-test is an inferential statistic used to determine if there is a significant difference between the means of two groups and how they are related

1. What is percentile?

A percentile is a comparison score between a particular score and the scores of the rest of a group

1. What is ANOVA?

Analysis of variance, or ANOVA, is a statistical method that separates observed variance data into different components to use for additional tests.

1. How can ANOVA help?

ANOVA is helpful for testing three or more variables. It is similar to multiple two-sample t-tests

