

STATISTICS WORKSHEET-3 Answer sheet

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

→ Option B

Total Variation = Residual Variation + Regression Variation

2. Collection of exchangeable binary outcomes for the same covariate data are called outcomes.

→ Option C = binomial

3. . How many outcomes are possible with Bernoulli trial

→ Option A) 2

4. If H_0 is true and we reject it is called

→ Option Is a) Type-I error

5. Level of significance is also called:

→ Option a) Power of the test

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

→ Option d) None

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

→ Option b) Hypothesis

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

→ Option d) All of the mentioned

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

→ Option a) 0

10. What is Bayes' Theorem?

→ It is describe the Probability of occurrence of an event related of any condition. Bayes Theorem also know as 'Causes'.

11. What is Z-score.

→ A z score defined where the score lies on a normal distribution curve

Formula = $z = \frac{\text{observed value} - \text{sample number of mean}}{\text{standard deviation of the sample}}$

12. what is t-test

→ t test is a statistical test it is used to compare mean of two group. it is hypothesis testing process

13. What is percentile?

→ is used in statistics indicating the value below which is a given percentage of observation in a group observation.

14. what is Anovo.

→ Analysis of Variance

It is observed aggregate variability found inside a data set into two parts of

1. Systematic factor

2. random factor

15. How can ANOVA help

→ Anovo is helpful for testing three or more variables. It is similar to multiple two-sample and two-test