

### STATISTICS WORKSHEET SET-3

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

Ans. Total Variation = Residual Variation + Regression Variation(B)

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

Ans. Binomial(c)

3. How many outcomes are possible with Bernoulli trial?

Ans. 2 (A)

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

Ans. Type-I error (A)

5. Level of significance is also called:

Ans. Size of the test (B)

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

Ans. Increase (B)

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

Ans. Hypothesis (B)

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

Ans. All of the mentioned (D)

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

Ans. 0 (A0)

10. What is Bayes's theorem?

Ans. Bayes's theorem describes the occurrence of an event related to any condition. It is used in case of conditional probability.

11. what is Z-Score?

Ans. Z-score is also called standard score. Z-score is measured in terms of standard deviations from the Mean score.

12. what is t-test? Ans.

A t-test is the statistical test that compares the means of two samples. It is used in Hypothetical testing.

13. what is percentile?

Ans. Percentile is a value of number that represents a percentage position on a range or list of the data. The person or thing at the number of percentage.

14. what is ANOVA? Ans. Analysis of variance (ANOVA) is a statistical technique that is used to check if the means of two or more groups are significantly different from each other.

15. How can ANOVA help?

Ans. ANOVA helps in Hypothetical testing. It enables the comparison of independent and dependent variables.