

STATISTICS WORKSHEET-3

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

 Which of the following is the correct formula for total variation? a) Total Variation = Residual Variation - Regression Variation b) Total Variation = Residual Variation + Regression Variation c) Total Variation = Residual Variation * Regression Variation d) All of the mentioned 	
 2. Collection of exchangeable binary outcomes for the same covariate data are called a) random b) direct c) binomial d) none of the mentioned 	outcomes.
3. How many outcomes are possible with Bernoulli trial? a) 2 b) 3 c) 4 d) None of the mentioned	
4. If Ho is true and we reject it is called The Robert Standard error b) Type-II error c) Standard error d) Sampling error	
5. Level of significance is also called: a) Power of the test b) Size of the test c) Level of confidence d) Confidence coefficient	
 6. The chance of rejecting a true hypothesis decreases when sample size is: a) Decrease b) Increase c) Both of them d) None 	
 7. Which of the following testing is concerned with making decisions using data? a) Probability b) Hypothesis c) Causal d) None of the mentioned 	
 8. What is the purpose of multiple testing in statistical inference? a) Minimize errors b) Minimize false positives c) Minimize false negatives d) All of the mentioned 	



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



b) 5

c) 1

d) 10

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

- 10. What Is Bayes' Theorem?
- 11. What is z-score?
- 12. What is t-test?
- 13. What is percentile?
- 14. What is ANOVA?
- 15. How can ANOVA help?

