

a) Probabilityb) Hypothesisc) Causal

d) None of the mentioned

Answer :- option(b)(Null Hypothesis)

STATISTICS WORKSHEET-3

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

sich of the following is the correct formula for total variation?	
al Variation = Residual Variation – Regression Variation	
tal Variation = Residual Variation + Regression Variation	
al Variation = Residual Variation * Regression Variation	
d) All of the mentioned Answer: - option (a)	
2. Collection of exchangeable binary outcomes for the same covariate data are called	outcomes.
a) random	
b) direct	
c) binomial	
d) none of the mentioned	
Answer :- option (c)	
3. How many outcomes are possible with Bernoulli trial?	
a) 2	
b) 3	
c) 4	
Answer :- option (a)	
 4. If Ho is true and we reject it is called a) Type-I error b) Type-II error c) Standard error d) Sampling error Anwer:- option (a) 	
5. Level of significance is also called:	
a) Power of the test	
b) Size of the test	
c) Level of confidence	
d) Confidence coefficient	
Answer:- option(b)	
6. The chance of rejecting a true hypothesis decreases when sample size is: a) Decrease	
c) Both of them	
d) None	
Answer :- option(b)	
	al Variation = Residual Variation - Regression Variation al Variation = Residual Variation * Regression Variation d) All of the mentioned Answer :- option (a) 2. Collection of exchangeable binary outcomes for the same covariate data are called a) random b) direct c) binomial d) none of the mentioned Answer :- option (c) 3. How many outcomes are possible with Bernoulli trial? a) 2 b) 3 c) 4 d) None of the mentioned Answer :- option (a) 4. If Ho is true and we reject it is called a) Type-1 error b) Type-Il error c) Standard error d) Sampling error Anwer:- option (a) 5. Level of significance is also called: a) Power of the test b) Size of the test c) Level of confidence d) Confidence coefficient Answer:- option(b) 6. The chance of rejecting a true hypothesis decreases when sample size is: a) Decrease b) Increase c) Both of them d) None



- 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

Answer :- **option (d)**

- 9. Normalized data are centred at and have units equal to standard deviations of the original data
 - a) 0
 - b) 5
 - c) 1
 - d) 10

Anwer:- option (a)

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

10. What Is Bayes' Theorem?

Answer: - **Bayes' theorem** describes the probability of occurrence of an event related to any condition. It is also considered for the case of conditional probability. Bayes theorem is also known as the formula for the probability of "causes". For example: if we have to calculate the probability of taking a blue ball from the second bag out of three different bags of balls, where each bag contains three different color balls viz. red, blue, black. In this case, the probability of occurrence of an event is calculated depending on other conditions is known as conditional probability.

11. What is z-score?

Answer: - A z score is simply defined as the number of standard deviation from the mean. The z-score can be calculated by subtracting mean by test value and dividing it by standard value. Where x is the test value, μ is the mean and σ is the standard value.

12. What is t-test?

Answer:- A t-test is a statistical test that is used to compare the means of two groups. It is often used in hypothesis testing to determine whether a process or treatment actually has an effect on the population of interest, or whether two groups are different from one another.

13. What is percentile?

Answer:- A percentile is a comparison score between a particular score and the scores of the rest of a group. It shows the percentage of scores that a particular score surpassed.

14. What is ANOVA?

Answer: - Analysis of variance, or ANOVA, is a statistical method that separates observed variance data into different components to use for additional tests. A one-way ANOVA is used for three or more groups of data, to gain information about the relationship between the dependent and independent variables.

15. How can ANOVA help?

Answer: The one-way ANOVA can help you know whether or not there are significant differences between the means of your independent variables (such as the first example: age, sex, income). When you understand how each independent variable's mean is different from the others, you can begin to understand which of them has a connection to your dependent variable (landing page clicks), and begin to learn what is driving that behavior.





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