

Progress Mentor Week 4:Assignment 4 The due date for submitting this assignment has passed. Due on 2021-09-01, 23:59 IST. As per our records you have not submitted this assignment. 1) 1 point If a scientist doubles the sample size of an experiment to test a hypothesis, then which of the following statements are correct? a. The probability of making Type – II error increases Power of the hypothesis test increases The probability of making Type-II error decreases d. Power of the hypothesis test decreases a □ b С d No, the answer is incorrect. Score: 0 Accepted Answers: С 2) 1 point Which of the following statements are correct for a hypothesis test conducted using a 5% significance level? a) 2.5% of the total distribution will be in each tail rejection region for a 2-sided test b) 5% of the total distribution will be in each tail rejection region for a 2-sided test c) total 5% of the whole distribution must be in the rejection region d) The power of the test is 5% a □ b С d No. the answer is incorrect. Score: 0 Accepted Answers: С 3) 1 point Which of the following is TRUE regarding p-value in a hypothesis testing? a. If the null hypothesis is true, p-value is the probability that the observed results are statistically significant b. The probability of failing to reject the null hypothesis for a given result c. The probability that the null hypothesis is true for a given result d. If the null hypothesis is true, the p-value is the probability of observing results as extreme or more extreme than currently observed O a ○ b Ос \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 4) 1 point What happens to the width of a confidence interval if the level of confidence is increased? a) Increases Decreases Remains same d) None of the above O a ○ b 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 5) 1 point The level of confidence is denoted by α b. β c. 1 - α d. 1 - β O a ○ b 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 6) 1 point In a class test the mean test score for entire class is 70 with standard deviation equal to 10. The mean score of a random sample of 64 female students is 73. The z statistics value is a) 1.2 b) 2.4 c) 0.3 d) 1.5 O a ○ b Ос O d No, the answer is incorrect. Score: 0 Accepted Answers: 7) 1 point A RTPCR test gives a negative test report, when the patient is actually infected with corona virus, the error is known as a) Type I error b) Type II error Sampling error d) Standard error O a b 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 8) 1 point A statistically significant result indicates a. p-value is less than the significance level b. p-value is greater than the significance level the confidence interval does not contain the null hypothesis value the confidence interval includes the null hypothesis value a _ b С _ d No, the answer is incorrect. Score: 0 Accepted Answers: 1 point The Null hypothesis and alternative hypothesis are statements pertaining to (a) Population Parameters (b) Sample Statistics (c) Both of the above (d) None of the above O a ○ b 0 c \bigcirc d No, the answer is incorrect. Score: 0 Accepted Answers: 10) 1 point The probability of Type - I error is known as

a. Level of confidence

b. Level of significance

Power of the test

d. Standard error

No, the answer is incorrect.

Accepted Answers:

O a

O b

0 c

 \bigcirc d

Score: 0