

01AB785 Agricultural Research Methodology
Spring AB 2018
Feedback Quiz 3 (Research Problems and Hypothesis)
Total Points 10

Name:

ID:

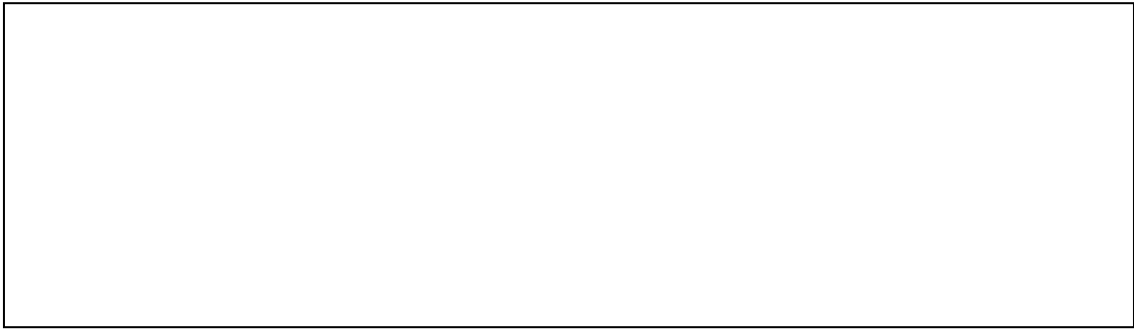
1. Please write a research question and hypothesis of your research?

2. Independent variables means what the research measures. (True/False)
3. What is the difference between null hypothesis and alternative hypothesis?

4. Write down the steps of hypothesis test.

5. A two-tailed test is one where results in one direction can lead to rejection of the null hypothesis. (True/False)
6. Alpha (α) measures the Type II error. (True/False)
7. What does level of significance means?

8. Explain confidence interval (CI) with graph.



9. One-way ANOVA stands for Analysis of Variance. (True/False)

10. Consider the observations recorded in TKM 6 (rice variety) in the character, number of panicles/plant in a sample of ten plants. Observations are 6,6,7,6,7,6,6,6,6,7.

The population mean is 6. Test the null hypothesis: $H_0: \mu = 6$, at 5 percent level of significance or test whether the sample mean was taken from the population whose mean is 6. $H_0: \mu = 6$; $H_A \neq 6$.