

## CA10 - Hypothesis Testing 2

Add Instructions...

1

True or False 4 points

The smaller the p-value, the stronger the evidence against the null hypothesis provided by the data.

- ☒ True
- ☐ False

2

Multiple Choice 4 points

Consider a hypothesis where:

$$H_0 : \mu = 23$$

$$H_a : \mu < 23$$

The test is?

- ☐ Right tailed
- ☒ Left tailed
- ☐ Two-tailed
- ☐ None of the above

3

Multiple Choice 4 points

Type I errors occur when

- ☒ We reject the null hypothesis if it is True
- ☐ We reject the null hypothesis if it is False
- ☐ We accept the null hypothesis if it is True
- ☐ We accept the null hypothesis if it is False

4

Multiple Choice 4 points

Suppose that we reject a null hypothesis at the  $\alpha = 0.05$  level of significance. For which of the following levels of significance do we also reject the null hypothesis?

- ☒ 0.06
- ☐ 0.025
- ☐ 0.04
- ☐ 0.03

5

Multiple Choice 4 points

Which of the following p-values will lead us to reject the null hypothesis if the significance level of the test is  $\alpha = 0.05$ ?

- ☐ 0.15
- ☐ 0.16
- ☐ 0.06
- ☒ 0.025