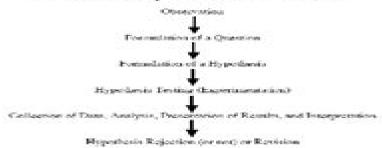
#### BIOL 1406

#### Lab Exam I Review Sheet (Dr. Molina)

Topics 1, 2, 3, 4, 5, 6, & 7 Revised 2/21/22

#### Topic 1: The Scientific Method

- What is a hypothesis? Testable and can be proven
- List a good characteristic for a sound scientific hypothesis. If then..., can be proven.
- Realize if a hypothesis is not testable, it is not appropriate in science (See example in lab manual)
- Can a hypothesis be proven? Yes
- What is a null hypothesis? Assumes that there is no difference between the two objects
- Know the difference between an observation and an inference. Observation is directly
  detectable by the senses while inferencing is providing scientific reason on your
  observation.
- Know the steps in the scientific method.



## Topic 2: Experimental Design and Hypothesis Testing

- List a logical hypothesis about Stanleya smithii. Stanleya smithii is a selenium tolerant
  plant.
- What were the independent and dependent variables for the experiment with Stanleya smithu? List two nuisance variables. I -selenium concentrate. D - plant growth. N - temp, weather, and sunlight.
- Know questions A, B, C in Exercise 2-2 concerning controls. Compare and contrast
  positive and negative controls and know the ones that we looked at for plants/selenium
  levels. Positive control- Similar plant to Stanleya Negative control a plant different
  from Stanleya

#### Topic 3: Creating Tables and Graphs, Data Interpretation

 Know the answers to any of the questions in the lab book (particularly Exercise 3-1 and Exercise 3-2) 1) 18/20 2)100 3)30 4)20/30

# **Biol 1406 Lab Manual Answers**

**M** Tight

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