# **Lab 1: Homeostasis, Data Collection, and data analysis**

## **Post-Lab1 Report (15 pts)**

Name(s)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1) (3 pts) *Define* and *Explain*, using correct vocabulary, the concept of Homeostasis. Give an example.

2) (3 pts) *Define* both positive and negative feedback. Give an example of each.

Explain why most of your homeostasis is maintained through negative feedback and feed-forward mechanisms and not positive feedback loops.

3) (2 pts) Explain the difference between the independent variable and the dependent variable. Which axis is each graphed on?

4) (2 pts) Explain the difference between correlation and causation. Why is it important not to confuse the two terms?

5) (3 pts) Hyperlink your news story here and write a short paragraph explaining what about this story demonstrates fallacious reasoning (be specific about what kind of fallacious tactics are used there) and what you would do to change it. In this paragraph, please comment on the fact that this fallacy was found in your “trusted” news source.

6) (1 pts) List and explain three systems/events/feedback loops in your physiology that have circadian variation.

7) (1 pts) If a human’s normal circadian rhythm is changed what sort of physiological things may happen? (Be VERY specific in your answer by giving details of the circadian process, how it could be altered and what, physiologically, would be altered as the process is altered)