

**Name:** \_\_\_\_\_

### Lab 3: Prelab Grading Sheet

1) What is a DAQ?

---

---

2) What type of inputs and outputs does the National Instruments *PCI-6023E data acquisition card* have? How many of each type does it contain?

---

---

3) What is minimum sampling frequency that should be used to analyze a 100 Hz signal? Why?

---

---

4) If an ECG signal has a period of 1 second and is sampled at 1000 Hz, how many samples would you need to view data from 5 periods of the signal?

---

---

5) What is NI-ELVIS?

---

---

6) What are the three parts of the NI-ELVIS system?

---

---

Lab Partner Names: \_\_\_\_\_

### Lab 3 Grading Sheet

Show your work to the TA as you complete designated steps, before proceeding to the next one.

Exercise 1 \_\_\_\_\_

---

Exercise 2  
Part 1 / Step 10 \_\_\_\_\_

Part 1 / Step 18 \_\_\_\_\_

Part 1 / Step 28 \_\_\_\_\_

---

Part 2 / Step 12 \_\_\_\_\_

---

Part 3 / Step 9 \_\_\_\_\_

What frequency contains the most power for this ECG? \_\_\_\_\_

Part 3 / Step 10

DC? \_\_\_\_\_

Peak-to-peak? \_\_\_\_\_

Max peak? \_\_\_\_\_

Part 3 / Step 11 \_\_\_\_\_

---

Part 4 / Step 18 \_\_\_\_\_