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 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