

Lab Partner Names: _____

Lab 4 Grading Sheet

Exercise 1: ECG – Patient 1

Exercise 1/Step 21: LabVIEW and electrode setup _____

Exercise 1/Step 26: ECG waveform _____

Experiment 1: Part 1 – Patient 1 at rest

Exercise 1/Step 29:

<i>Amplitudes</i>	ECG 1	ECG 2	ECG 3	Average
P wave				
QRS complex				
T wave				

<i>Period</i>	ECG 1 to 2	ECG 2 to 3	Average
P to P			
R to R			
T to T			

<i>Time Interval</i>	ECG 1	ECG 2	ECG 3	Average
PR wave				
QRS complex				
QT wave				

Exercise 1/Step 30: Average Amplitude _____

Average Period _____

Exercise 1/Step 31: Heart Rate _____

Experiment 1: Part 2 - Patient 1 after Exercise

Exercise 1/Step 29:

<i>Amplitudes</i>	ECG 1	ECG 2	ECG 3	Average
P wave				
QRS complex				
T wave				

<i>Period</i>	ECG 1 to 2	ECG 2 to 3	Average
P to P			
R to R			
T to T			

<i>Time Interval</i>	ECG 1	ECG 2	ECG 3	Average
PR wave				
QRS complex				
QT wave				

Exercise 1/Step 30: Average Amplitude _____

Average Period _____

Exercise 1/Step 31: Heart Rate _____

Exercise 1: ECG – Patient 2

Exercise 1/Step 21: LabVIEW and electrode setup _____

Exercise 1/Step 26: ECG waveform _____

Experiment 1: Part 1 – Patient 2 at rest

Exercise 1/Step 29:

<i>Amplitudes</i>	ECG 1	ECG 2	ECG 3	Average
P wave				
QRS complex				
T wave				

<i>Period</i>	ECG 1 to 2	ECG 2 to 3	Average
P to P			
R to R			
T to T			

<i>Time Interval</i>	ECG 1	ECG 2	ECG 3	Average
PR wave				
QRS complex				
QT wave				

Exercise 1/Step 30: Average Amplitude _____

Average Period _____

Exercise 1/Step 31: Heart Rate _____

Experiment 1: Part 2 – Patient 2 after Exercise

Exercise 1/Step 29:

<i>Amplitudes</i>	ECG 1	ECG 2	ECG 3	Average
P wave				
QRS complex				
T wave				

<i>Period</i>	ECG 1 to 2	ECG 2 to 3	Average
P to P			
R to R			
T to T			

<i>Time Interval</i>	ECG 1	ECG 2	ECG 3	Average
PR wave				
QRS complex				
QT wave				

Exercise 1/Step 30: Average Amplitude _____

Average Period _____

Exercise 1/Step 31: Heart Rate _____

Exercise 2: ECG and Plethysmograph – Patient 1

Exercise 2/Step 10: ECG and Plethysmograph waveform _____

Exercise 2/Step 13:

<i>Time Interval</i>	ECG 1/Pleth 1	ECG 2/Pleth 2	ECG 3/Pleth 3	Average
P to D				
R to D				
T to D				

<i>Time Period</i>	ECG 1 to ECG 2	ECG 2 to ECG 3	Average
R to R			

<i>Time Period</i>	Pleth 1 to Pleth 2	Pleth 2 to Pleth 3	Average
D to D			

<i>Difference</i>	RR1 and DD 1	RR2 and DD2	Average
RR – DD			

Exercise 2/Step 14:

	Average Amplitude	Average Period	Average
ECG			
Plethysmograph			

Exercise 2/Step 17: Heart Rate ECG _____

Heart Rate Plethysmograph _____

Exercise 2: ECG and Plethysmograph – Patient 2

Exercise 2/Step 10: ECG and Plethysmograph waveform _____

Exercise 2/Step 13:

<i>Time Interval</i>	ECG 1/Pleth 1	ECG 2/Pleth 2	ECG 3/Pleth 3	Average
P to D				
R to D				
T to D				

<i>Time Period</i>	ECG 1 to ECG 2	ECG 2 to ECG 3	Average
R to R			

<i>Time Period</i>	Pleth 1 to Pleth 2	Pleth 2 to Pleth 3	Average
D to D			

<i>Difference</i>	RR1 and DD 1	RR2 and DD2	Average
RR – DD			

Exercise 2/Step 14:

	Average Amplitude	Average Period	Average
ECG			
Plethysmograph			

Exercise 2/Step 17: Heart Rate ECG_____

Heart Rate Plethysmograph_____

Explain in detail how the ‘Continuous Acquisition Shell’ from the biomedical toolkit works

What can the delay between the peaks of the ECG and the plethysmograph tell you about the blood flow in the body?
