

ENGR 120/121 Lab 3 Marking Sheet

Lab Section _____ Kit Number _____ Group Number _____

Name	Student Number	Signature	Email

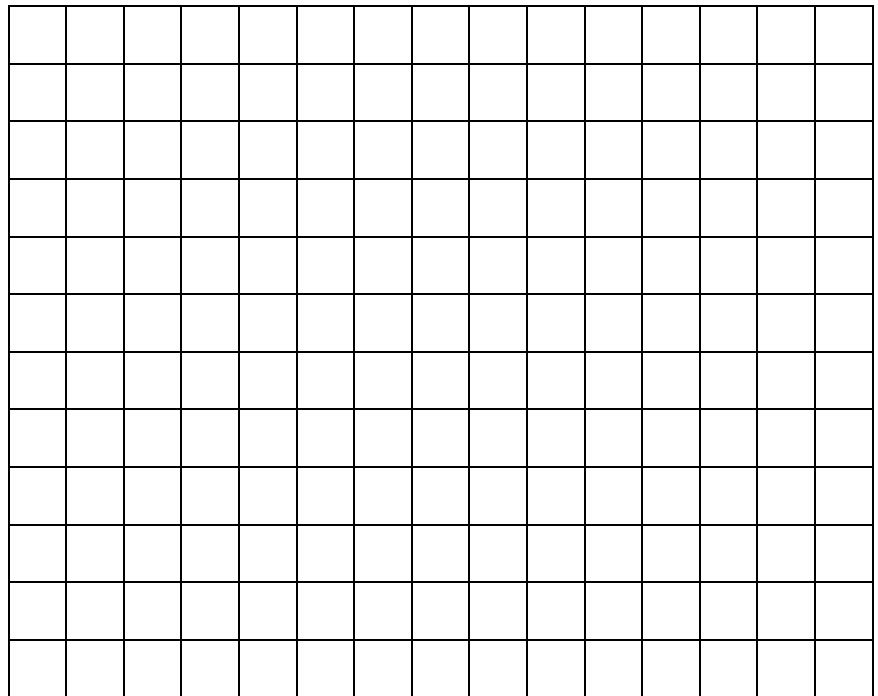
Marks:

Section	Mark	TA Initials
<u>In Lab</u> : Step 1, (Wiring matches Figure 7 - 3 pts, wiring is done safely - 2 pts)	/5	
<u>In Lab</u> : Step 3, (IR LED is activated – 2 pts)	/2	
<u>In Lab</u> : Step 4 (Students can confirm that port settings are correct – 3pts, Students can turn red LED on and off by adding/removing obstruction between IR LED and phototransistor – 5 pts)	/8	
<u>In Lab</u> : Step 6, students record voltages for different voltage levels – 3 pts, Students calculate good alpha and beta values – 7 pts $\alpha =$ _____, $\beta =$ _____	/10	
End of Assignment Question 1	/5	
End of Assignment Question 2	/10	
Total points	/40	

TA Notes:



Sensor port value



Volts

Bias Resistor Value	Low Port Value	Low Port Voltage	High Port Value	High Port Voltage
100 Ω				
1 000 Ω				
1 000 000 Ω (1 M Ω)				

Sensor Port Value	Voltage