1) Explain what a semi-conductor is. Be sure and compare and contrast the similarities and differences of the behavior of a semi-conductor to that of a conducting metal as well as the types of semi-conductors. Diagrams will be useful in your explanation.

2) What is Hall coefficient? What is Hall mobility? Be sure and include units.

3) Why is the Hall coefficient of a semi-conductor many orders of magnitude greater than that of metals?

4) Explain why ‘Hall resistance’ is different from resistance given by Ohm’s Law.

5) What is the typical drift velocity of a conducting metal? Compare this value to that you obtained in this experiment. Why is the drift velocity of a semi-conductor so much greater than that of a conducting metal?