Microscopy Practical Worksheet

Name:
Date:
Institution:

1. **(1 pt)** Fill in the following image with the appropriate components. Keep in mind the components themselves are inside the microscope casing.



1. **(3 pts)** Describe the term “beam coherence” and explain why it is important. What effects beam coherence?
2. **(3 pts)** What components in the microscope are used to align the electron beam? Describe the “gun tilt” and “gun shift” alignments that were performed. You may write it out or draw a picture.

1. **(3 pts)** Describe the two types of astigmation that were demonstrated and how they were corrected.