

Polytene Lab Prelab Quiz

Name: _____

Section: _____

10 pts total.

1. (2 pts) What must you always do before moving back from the 100X objective to the 40X objective? Why?

2. (1 pt) What is chromatin?

3. (3 pts) What stimulus will you use during lab to induce changes in chromatin conformation? What is the expected effect on the chromatin? How does the cell benefit from this response?

4. (2 pts) What are histones and what is their role in the cell?

5. (2 pts) What is the difference between a polyploid and diploid number of chromosomes? What features of polytene chromosomes distinguish them from polyploid chromosomes and make them particularly useful for this lab?