

Pre-Lab Questions

Lab 1

Note: These questions are due at the beginning of the lab period.

Biology 102
Concepts of Biology Lab

Name: _____

Answer the following multiple choice and fill-in questions to help you prepare for Lab 1.

Exercise 1

- ____ 1. The section of a scientific paper or report where the author(s) explain and interpret their experimental findings is called the _____ section.
a. References b. Methods c. Results d. Discussion e. Introduction
- ____ 2. A tentative explanation of some observations is referred to as a(n)
a. Conclusion b. Abstract c. Hypothesis d. Control e. none of these are correct
- ____ 3. For the "Reaction Time" Experiment, the only material required is a _____.
- ____ 4. In a laboratory notebook, all your numerical data and observations should be made in _____, while drawings from microscope observations should be made in _____.

Exercise 2

- ____ 5. The function of the iris diaphragm is
a. focusing light on the specimen b. scanning the specimen c. magnifies the image for the eye d. limit amount of light and maximize contrast e. none of these is true.
- ____ 6. If a student uses a microscope with a 40X objective lens and the optical lens is 10X, what is the total magnification of an image viewed with this microscope?
a. 0.4X b. 4X c. 40X d. 400X e. 4000X
- ____ 7. What must you NEVER do when viewing a microscope slide with high objective lenses?
a. open the iris diaphragm b. use the coarse focus c. use the fine focus d. use a different objective lens e. none of these answers are correct
- ____ 8. Which of the below actions is not used in making a wet mount.
a. placing the edge of the cover slip in a drop of water b. drawing off excess water with a paper towel c. press down or move the coverslip after it is in place. d. placing a drop or two of water on the specimen before mounting the coverlip.
- ____ 9. The higher the magnification of a specimen under the microscope, the shallower the _____.
- ____ 10. The movement of organelles throughout the cytoplasm of cells under normal conditions is called
a. cytosis b. cyclosis c. osmosis d. plasmolysis e. meiosis