

# Principles of Biology Lecture Exam 1 Study Guide

## Diagrams

The following diagrams from the textbook may appear on Exam 1:

Figures 2.9, 3.6, 3.11, 3.12, 4.5, and 6.2

### Most Relevant Learning Outcomes

1. Identify, describe, and give examples of the basic characteristics of life.
2. List, describe, and give examples of levels of biological organization.
3. Describe the relationship between natural selection and adaptation.
4. Distinguish between science and technology.
5. Summarize some of the major challenges facing science.
6. Describe the strengths of science.
7. Distinguish between a law/principle and a theory.
8. Analyze a scientific experiment and identify the hypotheses, experimental groups, control groups, and conclusions.
9. Formulate the predictive hypotheses, Null and Alternative, for an experiment.
10. Determine whether inductive or deductive reasoning is being used.
11. Identify popular and peer-review primary scientific literature.
12. Describe the atomic structure of atoms in terms of electrons, protons, and neutrons.
13. List uses for radioactive isotopes.
14. Describe the different types of chemical bonds.
15. Describe how the characteristics of water relate to its chemical structure.
16. Describe the characteristics of water and how they are important to life.
17. Describe the chemical nature of acid or basic solutions.
18. Compare organic and inorganic molecules.
19. Draw the structure of the following functional groups: Hydroxyl, Carboxyl, Amino, and Phosphate.
20. Describe the buildup and breakdown of polymers.
21. Distinguish between monosaccharides, disaccharides, polysaccharides.
22. Describe the parts of lipid molecules.
23. Compare and contrast the structure and functions of phospholipids, fats/oils, and cholesterol.
24. Discern healthy fats from unhealthy ones and describe the effect of unhealthy fats on the body.
25. Describe the functions of proteins in cells.
26. Explain how a polypeptide is constructed from amino acids.
27. Describe and compare the 4 levels of protein structure.
28. Describe the function of ATP in cells.
29. Explain the relationship between cell function and cell size.
30. List the principles of the Cell Theory.
31. Name the parts of the plasma membrane.
32. Describe the function of the plasma membrane.

# Biology Community Interactions Study Guide Answers

**Michael Hoelscher**



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