# 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.
- 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.
- Distinguish between a law/principle and a theory.
- 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.
- Determine whether inductive or deductive reasoning is being used.
- 11. Identify popular and peer-review primary scientific literature.
- Describe the atomic structure of atoms in terms of electrons, protons, and neutrons.
- 13. List uses for radioactive isotopes.
- 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.
- 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, Caboxyl, 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.
- Explain how a polypeptide is constructed from amino acids.
- Describe an 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.
- Describe the function of the plasma membrane.

# **Biology Principles Of Evolution Study Guide Answers**

**James Hall Zimmerman** 

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