

EXAM 1 Biology Mastery Study Guide

Relevant lectures: 1 - 6

Relevant modules: Module 1 and Module 2

Openstax readings: (See module 1 and module 2 in canvas)

Focus your preparation on the practice exams, clicker questions, kahoots, and open stax (in that order)

1. Chemistry of Life, Biomolecules

1.1. Bonds

- 1.1.1. Identify types, number of, structure, and chemistry (nature)
- 1.1.2. Given the chemical structure of a molecule, determine how many and what types of atoms are present in that structure

1.2. Electronegativity, Polar, Nonpolar

- 1.2.1. What is the relationship between electronegativity and polarity? How does this help us to predict the type of and characteristics of bonds that form?
- 1.2.2. Given the chemical structure of a molecule (or a change in a chemical structure), predict:
 - 1.2.2.1. The properties of that structure
 - 1.2.2.2. If it is capable of interacting with water (hydrophilic, hydrophobic)
 - 1.2.2.3. If it is capable of interacting with various other molecules and in what ways [e.g., will it form a hydrogen bond with another molecule]

1.3. Macromolecules

1.3.1. Carbohydrates, Proteins, Nucleic Acids, Lipids

- 1.3.1.1. Memorize and be able to identify macromolecules and or the monomers of macromolecules when given an image of a molecule.
- 1.3.1.2. Identify major macromolecules based on structure and/or function.
- 1.3.1.3. What are the monomers of proteins and nucleic acids?
- 1.3.1.4. Which macromolecules function to: store energy, store information, catalyze reactions, form membranes, etc.?
- 1.3.1.5. For each function, explain the relationship between chemical structure and molecular function (e.g. Given chemical structure of an energy storage molecule, explain where the energy is. How does the structure of phospholipid molecules support formation of semipermeable membranes? Etc.)

2. Proteins Structure / Function

2.1. Primary, Secondary, Tertiary, Quaternary

- 2.1.1. Note - we will provide you an amino acid table with the NAMES and STRUCTURES of those amino acids, but we will not provide their properties (we will ask if amino acids are hydrophilic or hydrophobic, polar, nonpolar, acidic or basic).
- 2.1.2. What type of interactions facilitate each level of structure?
- 2.1.3. What does denature mean? What can cause denaturation? How does denaturing impact molecular function?

Bio 12final Exam Study Guide Answers

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