

Biology 1010 Midterm Study Guide

The Biology 1010 midterm will cover material specifically from Modules 2-6. The exam will consist of multiple-choice, true/false, matching types of questions. You will have an hour to complete around 45-50 questions. (The vast majority of students complete the exam well under the time limit.) This study guide is provided for your reference and study only. It is not an assignment. You may create a single index card (4x6" size max) of notes to use on the exam. This is intended to be a hand-written card. It can include writing front and back. Those are the only notes allowed. You may not use any other notes, textbooks, phone, online resources, etc. Practice questions are a great way to study so use your Weekly Quizzes as review materials.

Module 2:

- Be familiar with the three types of bonds discussed in class and what is happening with electrons in each case:
 - **ionic – electrons are given and taken; ions are formed
 - **covalent – characterized by shared electrons
 - **know the difference between nonpolar and polar covalent bonds
 - **hydrogen – form between partial charges on H-containing molecules; for example, between the negative oxygen end of one water molecule and the positive hydrogen end of another water molecule
- Recognize that water is polar. A single water molecule consists of two polar covalent bonds between hydrogens and oxygen resulting in polarity.
- Because of water's polarity and the hydrogen bonds that form between water molecules - water is cohesive, ice floats, and water is a good solvent.
- Carbon is the backbone of all organic molecules
- Macromolecule Review

Carbohydrates Elements: C, H, O Monomer: monosaccharide ex. glucose Polymer Examples: <ul style="list-style-type: none"> • starch – • cellulose – • glycogen – 	Lipids Elements: C, H, O Components of a fat: <ol style="list-style-type: none"> 1. glycerol 2. fatty acid(s) Defining characteristic of lipids: hydrophobic (non-polar)
Proteins Elements: C, H, O, N Monomer: amino acids A polypeptide is a chain of amino acids. Protein shape determines function.	Nucleic Acids Elements: C, H, O, N, P Monomer: nucleic acids Polymer examples: DNA and RNA

Module 3:

Midterm Study Guide For Biology 100

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Midterm Study Guide For Biology 100:

Reviewing **Midterm Study Guide For Biology 100**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Midterm Study Guide For Biology 100**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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