

Biol 101 Study Sheet. Please hand write your information in the box. You may write around this and on the back.

YOUR NAME (First Last)

YOUR PID NUMBER:

**make sure the paper is flat and not frayed at the edges. Please no staples or pasting papers onto this. (if you do, make a copy so that I have a version that can go through a scanner feed easily).

Unit One

Cellular Respiration & Photosynthesis

Cellular Respiration: The process by which cells break down glucose to produce energy (ATP). It occurs in the mitochondria and consists of three main stages: Glycolysis, the Citric Acid Cycle, and the Electron Transport Chain.

Photosynthesis: The process by which plants and other organisms use sunlight to synthesize nutrients from carbon dioxide and water. It occurs in the chloroplasts and consists of two main stages: the Light-Dependent Reactions and the Calvin Cycle.

Genetics

Mendel's Laws:

- Law of Segregation:** Each individual has two alleles for each trait, one from each parent. These alleles separate during meiosis.
- Law of Independent Assortment:** The inheritance of one trait is independent of the inheritance of another trait.

Genotypes and Phenotypes:

- Genotype:** The genetic makeup of an organism.
- Phenotype:** The observable characteristics of an organism.

Genetic Crosses:

- Monohybrid Cross:** A cross between two individuals that are heterozygous for a single trait.
- Dihybrid Cross:** A cross between two individuals that are heterozygous for two traits.

Microbiology

Microorganisms: Small organisms that are too small to be seen with the naked eye. They include bacteria, fungi, and viruses.

Antibiotics: Medicines that kill or inhibit the growth of bacteria.

Antivirals: Medicines that inhibit the growth of viruses.

Antifungals: Medicines that inhibit the growth of fungi.

Unit Two

Cellular Processes

Osmosis: The movement of water across a semi-permeable membrane from an area of low solute concentration to an area of high solute concentration.

Diffusion: The movement of particles from an area of high concentration to an area of low concentration.

Active Transport: The movement of particles across a membrane against their concentration gradient, requiring energy.

Endocytosis: The process by which cells take in substances from their environment.

Exocytosis: The process by which cells release substances into their environment.

Cell Division

Prokaryotic Cell Division: Binary fission.

Eukaryotic Cell Division:

- Meiosis:** The process of cell division that results in four daughter cells, each with half the number of chromosomes as the parent cell.
- Mitosis:** The process of cell division that results in two daughter cells, each with the same number of chromosomes as the parent cell.

THE CHEMICAL STRUCTURE OF DNA

Components:

- Phosphate Group:** Attached to the 5' carbon of the sugar.
- Sugar:** Deoxyribose sugar, attached to the 3' carbon of the phosphate group.
- Nitrogenous Base:** Attached to the 1' carbon of the sugar.

Base Pairs: Adenine (A) pairs with Thymine (T), Guanine (G) pairs with Cytosine (C).

Genetic Pedigree

Legend:

- Black square: Affected male
- White square: Unaffected male
- Black circle: Affected female
- White circle: Unaffected female
- Circle with a diagonal slash: Unknown sex

Generations:

- Generation I:** Affected male and Unaffected female.
- Generation II:** Unaffected male and Affected female.
- Generation III:** Unaffected male and Unaffected female.
- Generation IV:** Affected male and Unaffected female.



This is a preview

Biology 101 Final Exam Study Guide

Hussin A.Rothana



Biology 101 Final Exam Study Guide:

Biology 101 Final Exam Study Guide Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Biology 101 Final Exam Study Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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