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### 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 light energy to convert carbon dioxide and water into glucose and oxygen. 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 inherited from each parent. These alleles separate during gamete formation.
- 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.

**Punnett Squares:** A tool used to predict the probability of offspring having a certain genotype or phenotype based on the genotypes of the parents.

**Microbiology**

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

**Antibiotics:** Medications that kill or inhibit the growth of bacteria.

**Antivirals:** Medications that inhibit the growth of viruses.

**Fungi:** Eukaryotic organisms that can be unicellular (like yeast) or multicellular (like mushrooms).

**Protozoa:** Single-celled eukaryotic organisms that can be parasitic or free-living.

### Unit Two

**Cellular Processes**

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

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

**Active Transport:** The movement of molecules across a membrane against their concentration gradient, requiring energy (ATP).

**Endocytosis:** The process by which a cell takes in materials from its environment by engulfing them in a vesicle.

**Exocytosis:** The process by which a cell releases materials into its environment by fusing a vesicle with the cell membrane.

**Cell Division**

**Prokaryotic Cell Division (Binary Fission):** A simple process where the cell replicates its DNA and then divides into two daughter cells.

**Eukaryotic Cell Division:**

- Meiosis:** A type of cell division that results in four daughter cells, each with half the number of chromosomes as the parent cell. It is used for the production of gametes.
- Mitosis:** A type of cell division that results in two daughter cells, each with the same number of chromosomes as the parent cell. It is used for growth and repair.

**THE CHEMICAL STRUCTURE OF DNA**

**Components of DNA:**

- Phosphate Group:** Attached to the 5' carbon of the sugar.
- Sugar:** Deoxyribose, attached to the 3' carbon of the phosphate group.
- Nitrogenous Base:** Attached to the 1' carbon of the sugar. It can be a purine (Adenine, Guanine) or a pyrimidine (Thymine, Cytosine).

**Base Pairing:** Adenine pairs with Thymine (A-T), and Guanine pairs with Cytosine (G-C).



This is a preview

# Biology 101 Final Exam Study Guide

**Edward C. Gruber**



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