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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 Experiments:** Gregor Mendel's work with pea plants established the basic principles of heredity. He discovered that traits are passed from parents to offspring in discrete units called genes.

**Genes & Alleles:** A gene is a segment of DNA that codes for a specific protein. An allele is a variant form of a gene.

**Genotypes & Phenotypes:** A genotype is the genetic makeup of an organism, while a phenotype is the observable physical or biochemical characteristics of an organism.

**Genetic Crosses:** A Punnett square is used to predict the probability of offspring having a particular genotype or phenotype based on the genotypes of the parents.



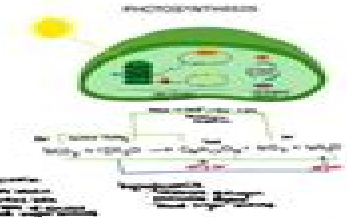

**Microbiology**

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

**Antibiotics:** These are drugs that kill or inhibit the growth of bacteria. They are used to treat bacterial infections.

**Antivirals:** These are drugs that inhibit the growth of viruses. They are used to treat viral infections.

**Antifungals:** These are drugs that inhibit the growth of fungi. They are used to treat fungal infections.

### 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.

**Endocytosis:** The process by which cells take in substances from their environment by engulfing them in a vesicle.

**Exocytosis:** The process by which cells release substances from their environment by fusing a vesicle with the cell membrane.







**Cell Division**

**Prokaryotic Cell Division:** Binary fission is the primary method of reproduction in prokaryotes. It involves the replication of the cell's DNA and the division of the cell into two daughter cells.

**Eukaryotic Cell Division:** Eukaryotes use two types of cell division: mitosis and meiosis. Mitosis is used for growth and repair, while meiosis is used for the production of gametes.

**Mitosis:** A process of cell division that results in two daughter cells that are genetically identical to the parent cell.

**Meiosis:** A process of cell division that results in four daughter cells that are genetically diverse from the parent cell.

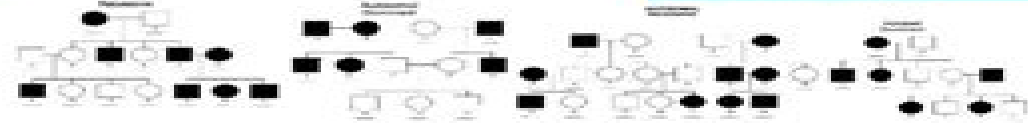




**THE CHEMICAL STRUCTURE OF DNA**

DNA is a double helix structure composed of two antiparallel strands. The strands are held together by hydrogen bonds between the nitrogenous bases. The backbone of the DNA molecule is composed of alternating deoxyribose sugar and phosphate groups.

**Nitrogenous Bases:** There are four types of nitrogenous bases: Adenine, Guanine, Cytosine, and Thymine. Adenine and Guanine are purines, while Cytosine and Thymine are pyrimidines.

**Base Pairing:** Adenine pairs with Thymine, and Guanine pairs with Cytosine.

This is a preview

# Biology 101 Final Exam Study Guide

**Michael Seilmaier**



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## **Table of Contents Biology 101 Final Exam Study Guide**

1. Understanding the eBook Biology 101 Final Exam Study Guide
  - The Rise of Digital Reading Biology 101 Final Exam Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Biology 101 Final Exam Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biology 101 Final Exam Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 101 Final Exam Study Guide
  - Personalized Recommendations
  - Biology 101 Final Exam Study Guide User Reviews and Ratings
  - Biology 101 Final Exam Study Guide and Bestseller Lists
5. Accessing Biology 101 Final Exam Study Guide Free and Paid eBooks
  - Biology 101 Final Exam Study Guide Public Domain eBooks
  - Biology 101 Final Exam Study Guide eBook Subscription Services
  - Biology 101 Final Exam Study Guide Budget-Friendly Options

6. Navigating Biology 101 Final Exam Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Biology 101 Final Exam Study Guide Compatibility with Devices
  - Biology 101 Final Exam Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Biology 101 Final Exam Study Guide
  - Highlighting and Note-Taking Biology 101 Final Exam Study Guide
  - Interactive Elements Biology 101 Final Exam Study Guide
8. Staying Engaged with Biology 101 Final Exam Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biology 101 Final Exam Study Guide
9. Balancing eBooks and Physical Books Biology 101 Final Exam Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Biology 101 Final Exam Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Biology 101 Final Exam Study Guide
  - Setting Reading Goals Biology 101 Final Exam Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology 101 Final Exam Study Guide
  - Fact-Checking eBook Content of Biology 101 Final Exam Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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