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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 from each parent. These alleles separate during gamete formation.
- Law of Independent Assortment:** The alleles for different traits are inherited independently of each other.

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 protists.

Cell Structure:

- Prokaryotes:** Lack a nucleus and other membrane-bound organelles.
- Eukaryotes:** Have a nucleus and other membrane-bound organelles.

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

Unit Two

Evolution

Evolution: The change in the characteristics of a population of organisms over time. It is driven by natural selection, genetic drift, and mutation.

Natural Selection: The process by which organisms with favorable traits are more likely to survive and reproduce, passing those traits on to their offspring.

Genetic Drift: The random change in the frequency of alleles in a population.

Mutation: A change in the DNA sequence that can lead to new traits.

Population Genetics

Hardy-Weinberg Equilibrium: A principle that states that the frequency of alleles in a population will remain constant from generation to generation if certain conditions are met (no selection, no mutation, no migration, random mating, and large population size).

Genetic Variation: The differences in the DNA sequence between individuals in a population.

THE CHEMICAL STRUCTURE OF DNA

Structure: DNA is a double helix structure composed of two antiparallel strands. The strands are held together by hydrogen bonds between complementary base pairs (Adenine with Thymine, Guanine with Cytosine).

Components:

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

Genetic Pedigree

Pedigree: A chart that shows the relationships between individuals and their offspring across several generations. It is used to track the inheritance of a specific trait.



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