

Test: Genetic Inheritance

Part I: Matching

Directions: Match each term in Column A with the correct definition in Column B. Write the correct letter on the line.

Column A

1. Gene
2. Allele
3. Trait
4. Genotype
5. Phenotype
6. Dominant Allele
7. Recessive Allele
8. Inheritance

Column B

- A. Different forms of the same gene
 - B. The genetic makeup of an organism
 - C. A segment of DNA that codes for a characteristic
 - D. Observable characteristics of an organism
 - E. A characteristic passed from parents to offspring
 - F. An allele that is expressed when present
 - G. An allele that is masked by a dominant allele
 - H. The passing of traits from parents to offspring
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Part II: Multiple Choice

Directions: Circle the best answer for each question.

1. What is the basic unit of heredity?
 - A. Cell
 - B. Gene
 - C. Tissue
 - D. Organ
2. A trait that is hidden when a dominant allele is present is called:
 - A. Dominant
 - B. Inherited
 - C. Recessive
 - D. Genetic
3. Which scientist is known as the 'Father of Genetics'?
 - A. Charles Darwin
 - B. Louis Pasteur
 - C. Gregor Mendel
 - D. Isaac Newton

4. What is an allele?
 - A. A type of chromosome
 - B. A different form of a gene
 - C. A type of cell
 - D. A protein
5. The observable traits of an organism are called its:
 - A. Genotype
 - B. Alleles
 - C. Phenotype
 - D. Chromosomes
6. If an organism has two identical alleles for a trait, it is:
 - A. Heterozygous
 - B. Dominant
 - C. Recessive
 - D. Homozygous
7. Which of the following is an example of a phenotype?
 - A. Bb
 - B. Brown eyes
 - C. Gene
 - D. Chromosome
8. What determines an organism's inherited traits?
 - A. Alleles received from parents
 - B. Weather conditions
 - C. Exercise
 - D. Age
9. A dominant allele is represented by:
 - A. A lowercase letter
 - B. A number
 - C. An uppercase letter
 - D. A symbol
10. Which statement about inheritance is true?
 - A. Traits are passed from offspring to parents.
 - B. Traits are passed from parents to offspring.
 - C. Traits are created by the environment only.
 - D. Traits cannot be inherited.