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	Column B
1. Gene	A. Different forms of the same gene
2. Allele	B. The genetic makeup of an organism
3. Trait	C. A segment of DNA that codes for a characteristic
4. Genotype	D. Observable characteristics of an organism
5. Phenotype	E. A characteristic passed from parents to offspring
6. Dominant Allele	F. An allele that is expressed when present
7. Recessive Allele	G. An allele that is masked by a dominant allele
8. Inheritance	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

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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.

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