Quiz: Inheritance & Variations of Traits

Part I: Matching

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

Column A	Column B
1. Trait	A. Different forms of the same gene
2. Gene	B. A characteristic passed from parent to offspring
3. Allele	C. The passing of traits from parents to offspring
4. Inheritance	D. A segment of DNA that determines a trait
5. Variation	E. Differences in traits among individuals
6. Dominant Trait	F. Trait that is expressed only when two recessive alleles are present
7. Recessive Trait	G. Trait that masks another trait when present
8. Chromosome	H. Structure that carries genetic information
9. Heredity	I. The transmission of genetic characteristics from parents to offspring
10. DNA	J. Molecule that contains genetic instructions

Part II: Multiple Choice: Directions: Circle the best answer.

11. What is a trait?
    a. A type of cell
    b. A characteristic of an organism
    c. A chromosome
    d. A protein

12. Which structure contains genes?
    a. Ribosome
    b. Chromosome
    c. Cell membrane
    d. Cytoplasm

13. What is heredity?
    a. The study of rocks
    b. The passing of traits from parents to offspring
    c. A type of mutation
    d. Cell division

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14. Which molecule carries genetic information?
    a. Water
    b. Protein
    c. DNA
    d. Glucose

15. What causes variation among individuals?
    a. Differences in genes and environment
    b. Identical DNA in all organisms
    c. Lack of chromosomes
    d. Cell size

16. An allele is:
    a. A type of cell
    b. A form of a gene
    c. A chromosome
    d. A protein

17. Which trait is expressed when at least one dominant allele is present?
    a. Recessive trait
    b. Inherited trait
    c. Dominant trait
    d. Environmental trait

18. Why might siblings have different traits?
    a. They inherit different combinations of alleles
    b. They have different species of DNA
    c. They do not inherit genes
    d. They lack chromosomes

19. Which of the following is an example of an inherited trait?
    a. A scar
    b. Hair color
    c. A sunburn
    d. A learned skill

20. Variation within a population is important because it:
    a. Prevents inheritance
    b. Helps populations adapt to changing environments
    c. Eliminates genes
    d. Stops evolution

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