Test: The Role of DNA

Part I: Matching

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

Column A	Column B
_____ 1. DNA	A. A change in DNA sequence
_____ 2. Gene	B. The basic unit of life
_____ 3. Chromosome	C. Instructions passed from parents to offspring
_____ 4. Trait	D. A structure in the cell that contains DNA
_____ 5. Nucleus	E. A section of DNA that controls a specific characteristic
_____ 6. Heredity	F. A molecule that carries genetic information
_____ 7. Protein	G. A structure made of DNA and proteins
_____ 8. Cell	H. A characteristic inherited from parents
_____ 9. Genetic Information	I. A large molecule built using DNA instructions
_____ 10. Mutation	J. The process by which traits are passed from one generation to the next

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Part II: Fill-in-the-Blank: Directions: Use the words from the word bank to complete each sentence.

Word Bank

DNA genes chromosomes nucleus traits
heredity proteins mutation cell instructions

11. _____ carries the genetic information in living organisms.
12. Segments of DNA that control inherited characteristics are called _____.
13. DNA is organized into structures called _____.
14. In most cells, DNA is found in the _____.
15. Characteristics passed from parents to offspring are called _____.
16. The passing of traits from one generation to the next is known as _____.
17. DNA contains _____ for building molecules needed by the body.
18. DNA provides the code for making _____.
19. A change in the DNA sequence is called a _____.
20. The basic unit of life is the _____.

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Part III: True or False

Directions: Write **T** for True or **F** for False.

21. _____ DNA contains the instructions needed for life.
22. _____ Genes are found on chromosomes.
23. _____ Traits cannot be inherited from parents.
24. _____ The nucleus contains the cell's DNA.
25. _____ Proteins are made using instructions found in DNA.
26. _____ All living organisms contain cells.
27. _____ A mutation is a change in DNA.
28. _____ Chromosomes are made entirely of water.
29. _____ Heredity explains how traits are passed from parents to offspring.
30. _____ DNA plays no role in determining an organism's characteristics.

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