Quiz: DNA and Its Functions

Part I: Multiple Choice

Directions: Circle the best answer for each question.

1. What does DNA stand for?

A. Dynamic Nucleic Acid
B. Deoxyribonucleic Acid
C. Double Nucleus Acid
D. Deoxyribose Nuclear Acid

2. What is the main function of DNA?

A. To produce energy for the cell
B. To protect the cell membrane
C. To store and transmit genetic information
D. To remove waste from the cell

3. Where is DNA found in most cells?

A. Cell membrane
B. Cytoplasm
C. Nucleus
D. Ribosome

4. DNA contains instructions for making:

A. Water
B. Proteins
C. Oxygen
D. Minerals

5. What are segments of DNA called?

A. Cells
B. Chromosomes
C. Genes
D. Organelles

6. Which structure contains DNA?

A. Chromosome
B. Cell wall
C. Vacuole
D. Cytoplasm

7. DNA helps determine an organism's:

A. Inherited traits
B. Habitat only
C. Food supply only
D. Age only

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8. Which of the following is passed from parents to offspring through DNA?

A. Traits
B. Homework
C. Memories
D. Learned skills

9. What is a mutation?

A. A type of protein
B. A change in DNA
C. A cell organelle
D. A chromosome pair

10. Why is DNA important to living organisms?

A. It controls and directs cell activities.
B. It produces sunlight.
C. It replaces oxygen.
D. It destroys proteins.

Part II: True or False

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

11. _____ DNA carries genetic information.
12. _____ Genes are made of DNA.
13. _____ DNA is found in the nucleus of most cells.
14. _____ DNA has no role in inheritance.
15. _____ Proteins are built using instructions found in DNA.
16. _____ Chromosomes contain DNA.
17. _____ Traits can be inherited from parents.
18. _____ A mutation is a change in DNA.
19. _____ DNA helps determine characteristics such as eye color and hair color.
20. _____ Every living organism contains DNA.

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