Fundamentals of Genetics

Genetics · Answer Key · 10 Questions

1. What is the name of the molecule that carries genetic instructions in all living things?

A) DNA
B) RNA
C) Protein
D) Glucose

2. What is the name of the structures inside the cell nucleus that contain DNA?

A) Ribosomes
B) Chromosomes
C) Mitochondria
D) Vacuoles

3. How many pairs of chromosomes do humans typically have in each cell?

A) 12
B) 23
C) 46
D) 50

4. Which term describes a specific segment of DNA that codes for a particular trait?

A) Cell
B) Gene
C) Nucleus
D) Tissue

5. What shape is a DNA molecule often described as?

A) Circle
B) Square
C) Double helix
D) Triangle

6. Who is often referred to as the 'father of genetics' for his work with pea plants?

A) Charles Darwin
B) Albert Einstein
C) Gregor Mendel
D) Isaac Newton

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7. Which of these is an example of an inherited trait in humans?

A) Scars
B) Eye color
C) Language spoken
D) Calloused hands

8. What determines the sex of a human baby?

A) Diet of the mother
B) Chromosomes from the father
C) Temperature of the environment
D) Age of the parents

9. Which base always pairs with Adenine in a DNA molecule?

A) Guanine
B) Cytosine
C) Thymine
D) Uracil

10. What is the process called where an organism passes genetic information to its offspring?

A) Digestion
B) Respiration
C) Heredity
D) Photosynthesis

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