

Human Genetics and Health Basics

Genealogy And Genetics · Answer Key · 8 Questions

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

- A) Protein
- B) DNA**
- C) Lipid
- D) Carbohydrate

2. Humans typically have how many pairs of chromosomes in each cell?

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

3. Which term describes a permanent change in the DNA sequence that makes up a gene?

- A) Mutation**
- B) Evolution
- C) Digestion
- D) Respiration

4. Which of these traits is primarily determined by genetics?

- A) Length of hair
- B) Eye colour**
- C) Language spoken
- D) Knowledge of history

5. What are the units of heredity that are passed from parents to their children?

- A) Cells
- B) Genes**
- C) Tissues
- D) Organs

6. Which substance in the blood is determined by inherited genes from parents?

- A) Blood type**
- B) Body temperature
- C) Heart rate
- D) Oxygen level

7. What is the structure that contains an individual's complete set of genetic information?

- A) Genome**
- B) Ribosome
- C) Mitochondria
- D) Enzyme

8. Which biological factor influences an individual's height and physical build?

- A) Only environment
- B) Only diet
- C) Genetics and environment**
- D) Neither genetics nor environment