Genetics in the Natural World

Genetics · Answer Key · 18 Questions

1. What is the name of the molecule that carries genetic information in all living organisms?

A) DNA
B) Protein
C) Sugar
D) Lipid

2. What are the units of heredity that parents pass to their offspring?

A) Cells
B) Genes
C) Fossils
D) Rocks

3. Which term describes the physical appearance of an animal resulting from its genetics?

A) Mutation
B) Phenotype
C) Habitat
D) Migration

4. In sexually reproducing animals, how many parents provide genetic material to the offspring?

A) One
B) Two
C) Three
D) Four

5. What is the process by which traits are passed from parents to their young?

A) Heredity
B) Photosynthesis
C) Pollination
D) Evaporation

6. What structure inside a cell contains the DNA in plants and animals?

A) Nucleus
B) Leaf
C) Root
D) Stem

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

A) A scar on its ear
B) Fur color
C) A learned trick
D) A collar

8. What is a permanent change in the DNA sequence of an organism called?

A) Adaptation
B) Mutation
C) Metamorphosis
D) Hibernation

9. What do we call the specific version of a gene?

A) Allele
B) Organ
C) Soil
D) Water

10. Which animal species is frequently used in genetic research due to its simple genome?

A) Fruit fly
B) Blue whale
C) Giraffe
D) Elephant

11. What determines the sex of many types of reptiles, such as crocodiles, during development?

A) Incubation temperature
B) Diet of the mother
C) Color of the eggs
D) Size of the nest

12. What is the term for the complete set of genetic instructions in an organism?

A) Genome
B) Syllabus
C) Catalog
D) Recipe

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13. If an organism has two identical alleles for a specific trait, it is called:

A) Homozygous
B) Heterozygous
C) Complex
D) Adaptive

14. Which substance provides the 'code' for building proteins in animals?

A) DNA
B) Water
C) Sunlight
D) Oxygen

15. What is the primary function of DNA in nature?

A) Storing genetic instructions
B) Providing energy to cells
C) Filtering water
D) Protecting skin from sun

16. Which of the following is NOT an inherited trait in birds?

A) Beak shape
B) Ability to sing a specific song learned from adults
C) Feather color
D) Presence of wings

17. What is the process of selecting animals with desirable traits for breeding called?

A) Artificial selection
B) Natural disaster
C) Extinction
D) Conservation

18. Where is the majority of a grizzly bear's genetic information located?

A) In the nucleus of its cells
B) In its fur
C) In its claws
D) In its teeth

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