

Name: _____

Date: _____

Test: Fossil Evidence, Natural Selection, Selective Breeding, Genetic Engineering

Directions: Choose the correct answer.

1. What helps scientists learn about the past?

- a. fossils
- b. ghosts
- c. cave paintings
- d. history books

2. What does it mean if many fossils of the same species are found together?

- a. they had many babies
- b. they lived and traveled in herds
- c. they all died by a meteor
- d. they all died at different times

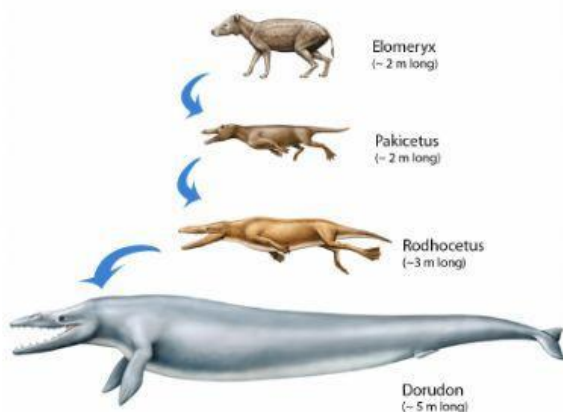
3. Why might you find a marine (sea) fossil in the desert?

- a. a vulture probably dropped it there
- b. the marine creature was confused
- c. deserts have bodies of water that the marine creature could live in
- d. there may have once been a desert there

4. What does the shape of a leaf fossil tell us about the past?

- a. it tells about the climate of the past environment
- b. it tells how much sun the plant got
- c. it tells what types of animals ate the plant
- d. it tells how big the plant was

5. What does this picture show?



- a. evidence of evolution
- b. evidence of selective breeding
- c. evidence of genetic engineering
- d. evidence of mass extinction

6. Who was the pioneer of the theory of natural selection?

- a. Robert Hooke
- b. Charles Darwin
- c. Charles Marvin
- d. Ronald McDonald

Directions: Write True or False for the following statements.


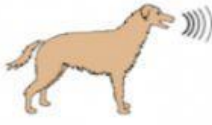

- 7. Survival of the fittest always means that the strongest survive.
- 8. Scientists believe that all living things come from a common ancestor.
- 9. Animals of the same species are able to mate and have offspring.
- 10. Selective breeding is when scientists take DNA from one living thing and put it into another to get a desired trait.
- 11. Natural selection is controlled by humans.

Directions: Write whether each example is natural selection, selective breeding, or genetic engineering.

- 12. A farmer choosing a large hen and a large rooster to mate and have large offspring
- 13. A scientist taking disease resistant DNA from a strawberry plant and putting it into a blueberry plant.
- 14. Giraffes with short necks die because they can't reach the leaves on a tree.
- 15. Brown rabbits are spotted and eaten by hawks more quickly in the snow.
- 16. A farmer pollinating large corn plants with corn plants that have a sweeter taste.
- 17. A scientist taking DNA from a tomato that has a long shelf life and putting it into an apple.

Directions: Short Answer

18. You are living in an area that is heavily populated by bears. You want a dog that can hear a bear coming, and bark to sound the alarm so that you know when to lock yourself indoors. Which two dogs would you breed to get the dog you want?

Existing breeds		Traits
Breed 1:		pointed ears green eyes short coat medium bark
Breed 2:		floppy ears blue eyes long coat medium bark
Breed 3:		floppy ears blue eyes long coat loud bark