

Name: _____ Date: _____

STUDY GUIDE: EVOLUTION AND NATURAL SELECTION

1. Biological evolution is the _____ in the genetic makeup of a species through _____



_____ the hypothesis that evolution of a species occurs in periods of rapid change, separated by periods of little change.



_____ the hypothesis that evolution of a species occurs at a slow constant rate.

NATURAL AND ARTIFICIAL SELECTION



2. Define natural selection:

Determine if the following scenarios are examples of natural selection. Write "Y" for Yes and "N" for No.

3. _____ Arctic penguins that do not have thick layers of blubber are not able to survive the cold, whereas penguins that have thick layers of blubber survive the winters and lay more eggs.



4. _____ Peacocks with healthy, bright, colorful, thick tails tend to attract more peahens, whereas peacocks that have unhealthy tails do not attract as many peahens, and therefore do not have many offspring. This trend has caused most peacocks to have brilliant tail feathers.

5. _____ Many designer dog breeds are such as the "Cockerloo", "Aussiedoodle" or "Puggle" are formed in which chosen traits are bred over many generations until the desired outcome is achieved.

6. _____ Improved nutrition in humans over the past century has caused them to grow to their fullest potential height.

7. _____ Elephant herds in Uganda are being targeted for their tusks. This has led to an increase in tuskless elephants.

8. Come up with one significant example of artificial selection and not natural selection. Explain why? how it has changed the species:

9. Natural selection acts upon (circle one) genotypes | phenotypes.

TRUE OR FALSE: If you believe the following statement is True, write "T". If you believe it is False, write "F".

_____ 10. Competition is a factor of natural selection.

_____ 11. Genetic variation is a factor of natural selection.

_____ 12. Individuals among a population that are better adapted to their environment leave more offspring.



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