

Study Guide Adaptation Test 2017

1. What is one advantage of asexual reproduction?

Many offspring in a short amount of time

2. What kind of behavior is being demonstrated when a killer whale teaches its baby to hunt?

parenting

3. What are the natural cycles that control an animal's hibernation, migration, and reproduction schedule?

Seasonal cycles

4. What is a period of reduced activity during hot weather called?

estivation

5. When individuals with different inherited characteristics in a population reproduce, what is the result?

genetic variation

6. When insecticide-resistant insects reproduce, what do they do?

They pass their insecticide-resistant genes to their offspring

7. What may happen to populations that lose genetic variation?

They may be more susceptible to birth defects

8. The process by which individuals that are better adapted to their environment survive and reproduce more successfully than less well-adapted individuals is called

natural selection

9. Which kind of behavior do animals use to protect themselves and their territories, food, mates, and offspring?

defensive behavior

10. What kind of adaptation for survival is camouflage?

predator-prey adaptation

11. How does genetic variation occur within a population?

Individuals with different characteristics reproduce

12. When a male fish spreads sperm over the eggs that the female laid, what kind of fertilization has taken place?

external fertilization

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Match each item with the correct statement below.

defensive behavior

learned behavior

innate behavior

territory

courtship

_____ innate behavior _____ 13.a behavior that is inherited through genes

_____ learned behavior _____ 14.a behavior that is not present at birth but has been acquired from experience

_____ territory _____ 15.the area where an animal lives, by itself or with a group of animals

_____ defensive behavior _____ 16.a behavior that an animal uses to protect its mate, offspring, food, territory, and itself from other animals

_____ courtship _____ 17.a behavior that attracts mates

USING KEY TERMS

Use the terms from the following list to complete the sentences below. Each term may be used only once. Some terms may not be used.

territory

sexual reproduction

predator

adaptation

asexual reproduction

18. An animal's camouflage is an example of a predator-prey _____ adaptation _____.

19. Humans, like all mammals, reproduce using _____ sexual reproduction _____, which requires two parents.

20. Marking a(n) _____ territory _____ is a survival behavior that animals use to help in mating, raising offspring, and finding food.



21. **Adaptation:** Long, muscular neck and long, flexible tongue

Function: _____ obtaining food _____

Short Answer:

22. Choose an animal species that depends on a specific adaptation and behavior. Describe the purpose of the behavior and adaptation. Does this ensure that the animal survives? Explain.

You do

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23. Explain why adaptations help an organism survive. Do these adaptations need to change or remain the same? Give 2 examples of adaptation and why they are important to that organism.

You do

24. Explain the process of natural selection. How do adaptations play a role in natural selection?

- 1. Overproduction- more offspring are born than will survive**
- 2. Genetic variation within a population- individual in a population are different, some characteristics improve chances and some lower the chances for survival.**
- 3. Struggle to survive- an environment may not have enough food or water**
- 4. Successful reproduction- individuals that have better adaptations for living in their environment and for finding a mate are more likely to reproduce.**

If you are able to adapt to your environment then you have a better chance of finding a mate and reproducing.

25. A shortage of food over a number of years has caused a decrease in a population of African antelope. Give a general description of the surviving population (focusing on the genetic variety of the traits seen) and what may be issues that could happen because of this?

You do

26. What is one benefit and one disadvantage of sexual and asexual reproduction? Why...

benefit of sexual reproduction- genetic variation
disadvantage of sexual reproduction- finding a mate

benefit of asexual reproduction- no mate required
disadvantage of asexual reproduction- no genetic variation

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Other: Use the graph below to answer the following questions.

26. Which seed company had the **highest** percentage of seed germination? the **lowest** percentage of seed germination?

Highest D

Lowest C

27. If Elaine wants to buy seeds that had germination percentage higher than **60%**, which seed companies would she buy seeds from?

B and D

