**Ecosystems Test Study Guide Answer Key**

***Choose or write the answer to the following questions****. Your Science journal, and book pages 294-377 will help you with some of them*.

1. Which of the following organisms do you think has the greatest effect on an ecosystem because of the changes they make to their environment?

bees building a nest in a tree **or** beaver building a dam across a stream

1. The purpose of thorns on a plant is most likely to

help the plant get moisture **or** protect the plant from harm

1. What flows through all food chains?

energy **or** habitat

1. A grasshopper eats grass. A frog eats the grasshopper. A snake eats the frog. A hawk eats the snake. This is an example of a
   1. Food chain **or** Ecosystem
   2. Name the producer \_grass\_\_
   3. Name a consumer \_\_grasshopper, frog, or snake\_
   4. Is the snake an herbivore **or** carnivore?
2. What is the source of energy for ALL food chains? The sun
3. What is a group of connected food chains called?

food web **or** environment

1. What is “a change in the way an organism looks or acts to help it survive” called?

extinct **or** adaptation

1. A population of deer live in a small area and eat grass. There is a drought and most of the grass dries up, leaving the deer with less food. Describe in one or two sentences what might happen: The deer population will begin to decrease because they don’t have enough food to go around.
2. Name 3 possible causes of extinction: \_\_habitat loss\_\_ \_\_\_desired by humans\_ \_\_\_change/shortage of food OR picky eating\_\_
3. What is the difference between **endangered** and **extinct**?

Endangered means that there are very few left. Extinct means that there are none at all.

1. **Use these words to fill in the 3 blanks below:**

**Ecosystem Organism Environment**

An \_\_Environment\_ is all the living and nonliving things surrounding an organism.

An \_\_Ecosystem\_\_ is all the living and nonliving things working together to

survive.

A living thing is also called an \_\_\_organism\_\_\_.

1. **Use these words to fill in the 2 blanks below:**

**Community Population**

A group of the same type of living thing, in the same place at the same time is called a \_\_population\_\_.

All of the groups of living things that live in the same place at the same time are called the \_community\_\_.

1. **Animals must be able to meet their basic needs to remain in a habitat. The four basic needs of every living thing are:**

|  |  |
| --- | --- |
| Food | Water |
| Shelter | Air/Space |

1. **Draw a food web, on the back of the paper, with at least 2 producers, 2 first level consumers, and 2 second level consumers. Label them.**

Name the herbivores in the food web: Name the carnivores in your food web:

Answers will vary – herbivores should be the things eating only plants, carnivores eat only meat.

Are there any omnivores in your food web? \_\_\_Answers will vary – omnivores eat plants AND meat\_\_\_

Add a decomposer to your food web. What did you add? \_Answers will vary – mushrooms, bacteria, beetles, ants, earthworms\_