

Environments Quiz #1 Study Guide

Vocabulary You Must Know

environment

germinate

water tolerance

beetle

variable

favorable environment

nonliving

terrarium

environmental factor

controlled experiment

optimum

biotic

habitat

insect

organism

range of tolerance

isopod

preferred environment

abiotic

living

Types of Questions You Must Be Able to Answer

1. What influence do biotic and abiotic environment factors have on the living things in a habitat? For example, what factors influenced the growth of the plants in your terrarium?
2. If an organism needs something in order to survive, such as water, is it possible that the organism might get too much of that factor? What might happen if it does? Use an example to explain your answer.
3. List some natural factors and some human-made factors.
4. Are humans an environmental factor for some organisms? Give an example and explain it.
5. During a controlled experiment, how many factors should you study at once? Should you keep other factors the same or not? Why or why not?
6. You have decided to find out if plants grow better using water or apple juice. Design an experiment that would let you determine if plants prefer water or apple juice.
7. Bob grows corn, peas, and barley in separate pots (that is, the corn is in one pot, the peas in the second pot, and the barley in the third pot). He puts one pot on the windowsill, one outside on his front step, and the other on his screened back porch. He waters each plant whenever he feels like it from a large watering can with no measurement marks on it. The peas grow the fastest but the corn grows the tallest. The barley does not grow at all. What, if anything, can Bob learn about his plants this way? Why?
8. Bob (from the previous question) does not know how to use nonfiction, informational texts to find out new things. He wants to do a controlled experiment to find out which of his plants will grow the tallest in the next 4 weeks. He wants to grow them all on his back porch using dirt from the same bag. What would he have to do to test which plant will grow the tallest under the same conditions?
9. What is the difference between a need and a want? List some of your needs and wants.
10. Are darkling beetles or isopods insects? Explain your answer.