

Test Review
Ecology
Honors Biology
Lindemulder

Review all of your vocabulary!!!!!!

Chapter 34

1. What are examples of biotic and abiotic factors?
2. Who was Rachel Carson? What did she study?
3. Explain what causes the high amount of rain at the equator.
4. Explain a rain shadow. What is one place where this happens?
5. What are the different aquatic biomes?
6. What are the different terrestrial biomes? What causes their differences?

Chapter 35

1. Explain the differences between ultimate and proximate causes of behavior. Provide examples of each.
2. What is a FAP? Provide an example.
3. Behavior is governed by both genetic and environmental conditions. Explain how we know this is true.
4. What are the different types of learning? Provide examples.
5. Explain optimal foraging theory and provide an example.
6. What are the different ways animals communicate. Provide examples.
7. What are the various mating behaviors?
8. What is agonistic behavior? Provide examples.
9. Explain altruism and why it makes sense.

Chapter 36

1. Explain the various types of population dispersion patterns and explain what could cause each.
2. What is a life table? Explain the three types of survivorship curves.
3. Compare exponential and logistic growth.
4. What is a boom and bust cycle? Provide an example.
5. Explain the differences between r-selected and K-selected species. What growth models do each tend to have?
6. Explain the problems associated with human population growth. What causes it to grow the way does?

Chapter 37

1. What are the different interspecific interactions? Explain each and provide examples.
2. Explain the concept of an ecological niche and provide at least three examples.
3. What are prey avoidance strategies? Provide specific examples of each one.
4. Summarize the different trophic levels and provide an example of a food chain. How does energy move through the levels?
5. Explain the difference between detritivores and decomposers and provide examples of each. What is their ecological niche?
6. Draw an example food web.
7. Explain the concept of species diversity.
8. What is a keystone species? Provide at least two examples and explain why.
9. Explain the difference between primary and secondary succession. Explain the step-by-step process of each.
10. Explain how a community differs from an ecosystem.
11. Explain what makes an ecosystem a highly productive ecosystem and what can make it low productivity.
12. Explain the key concepts related to the carbon, phosphorus, and nitrogen cycles.
13. How does deforestation impact an ecosystem?

Chapter 38

1. What is biodiversity and what have humans done to reduce it?
2. What is the greatest threat to biodiversity and why is it the worst?
3. What are the levels of biodiversity and how are they different?
4. How can humans help to restore biodiversity?
5. Explain the difference between endangered and threatened species.
6. How do invasive species impact an ecosystem? How can an invasive species be handled?
7. Explain the concept of global warming. What causes it? How has it been proven?
8. What is a biodiversity hot spot and why are they found where they are found?