

Balance Within Ecosystems

Chapter 9 study Guide

1. Two ways population size can increase are _____ and _____.
2. Two ways population size can decrease are _____ and _____.
3. How do you calculate population density? For example suppose you counted 20 butterflies in a garden measuring 10 square meters. The population density is : _____. (pg 324)
4. **Limiting factors** are environmental factors that cause a population to stop growing. Identify and describe the effects of 3 limiting factors. (pages 325-326)
5. The largest population an area can support is called: _____.
6. In the graph on the right, what is the population of deer carrying capacity of the environment in Meadowland Park?
7. Adaptations are _____
8. Explain the 4 type of structural adaptations with an example for each:

9. Explain the 2 types of behavioral adaptations with an example for each.
10. How does natural selection affect the survival of a population?
11. Compare and contrast primary and secondary succession.
List the possible causes of each.
12. Identify abiotic/biotic resources you obtain from your ecosystem.
13. How can non-native species affect an ecosystem? Give two examples in Louisiana.
14. There are several examples of how human activities may harm the balance in an ecosystem? What happens to soil when grasses are overgrazed by cattle?
15. What are the benefits of energy production? What are the consequences? pg 345
16. What are the advantages and disadvantages of agriculture technology? pg 346
17. What is the environmental impact of human habitation and transportation? Pg 347
18. Why is biodiversity important? Pg 349
19. How can entire ecosystems such as a rainforest and mountain ranges be used to generate sources of money? pg 349
20. What is a keynote species? Give an example. Pg 349
21. What would happen if a keynote species is removed from an ecosystem? pg 349
22. What factors affect biodiversity? Pg 351-352
23. Which area is more likely to have the greatest biodiversity? Why? Pg 351
24. What is extinction? What causes it? pg 353
25. Explain the differences among a threatened species, an endangered species, and an extinct species. Pg 353
26. What are 4 ways in which humans can negatively affect biodiversity? (pg 354)
27. How can habitat fragmentation contribute to extinction? Pg 354
28. What is the illegal removal of wildlife called? Pg 354
29. How can pollution contribute to species extinction? Pg 354
30. What are 4 positive ways that humans can affect biodiversity? Pg 355

