

Ecology Part 2 Test Review

1. What is a population?
2. What is an ecosystem?
3. What is the difference between biotic and abiotic factors? Provide at least one example of each.
4. Explain the difference between a density- dependent factor and density-independent factor.
5. Provide three examples of density- dependent factors.
6. Provide three examples of density- independent factors.
7. Sketch a graph showing exponential population growth.
8. Sketch a graph showing logistic population growth. Be sure to indicate the carrying capacity.
9. Explain the difference between primary and secondary succession.
10. What is a pioneer species?
11. What are trees that lose their leaves during the cold seasons called?
12. What is a renewable resource? Provide 3 examples.
13. What is a nonrenewable resource? Provide 3 examples.
14. What would the earth be like without the greenhouse effect?
15. What is the greenhouse effect? Is it manmade?
16. How is smog created?
17. What is an invasive species? Provide an example of an invasive species in Florida.
18. What chemicals can be found in water that can impact an aquatic ecosystem?
19. When does a population increase (use the words births, deaths, immigration, and emigration)?
20. When does a population decrease (use the words births, deaths, immigration, and emigration)?
21. What happens when a population grows larger than the carrying capacity?
22. Why is biodiversity valuable to the biosphere and humans?
23. Explain why it is better for a population to be genetically diverse.
24. What is succession?
25. When does primary succession occur? Provide an example.
26. When does secondary succession occur? Provide an example.
27. What types of organisms usually grow in the early stages of secondary succession?
28. Why do scientists think global climate is changing?
29. How can humans live in a sustainable way?
30. Why do invasive species usually thrive in their new environment?
31. Propose a solution for managing fisheries sustainably.
32. What determines the carrying capacity of an ecosystem?