

Ecology 2nd Semester Exam Review

1. How much of Earth's water is fresh water and where is most of that freshwater?
2. Why is chlorine added to water during the treatment process?
3. Differentiate between point and nonpoint sources of pollution. Give examples of each.
4. What is the source of most ocean pollution?
5. What is the most inexpensive way to increase our supply of freshwater?
6. How does ground level ozone form?
7. What is the source of most of the sulfur dioxide that pollutes the air?
8. What types of buildings are more likely to have poor indoor air quality?
9. What is the pH of "normal" rainwater? What is the pH of rainwater in areas with "acid precipitation"?
10. List some major sources of particulate matter that pollutes the air.
11. What is a temperature inversion?
12. How is climate different from weather?
13. How have CO₂ levels changed and what is the source of these changes.
14. Which component of the atmosphere is most responsible for the greenhouse effect?
Which component of the atmosphere is most responsible for global warming?
15. What are CFCs? What products contain CFCs and why were they in so many products?
What problems do CFCs cause?
16. What is the most helpful thing a consumer can do to make sure more materials are recycled?
17. What makes up the largest percentage of waste produced by homes and businesses?
18. Define biodegradable. What is the main problem with biodegradable plastics?
19. What is the difference between recycling and source reduction?
20. Where do most Americans live?
21. Describe the problem of clearing tropical rainforest for agriculture.
22. Name the first national park.

23. Define: rural, open space, marginal land, arable land, rangeland, and urban.
24. What is reforestation?
25. Why do many areas around the world experience famine?
26. List the farming methods that increase soil erosion?
27. List farming methods that decrease soil erosion?
28. What is no-till farming?
29. What is irrigation?
30. What are persistent pesticides?
31. Differentiate between ore minerals and gangue minerals.
32. What is acid mine drainage and the problems associated with it?
33. What is a quarry?
34. What is reclamation?
35. Why are there fewer nuclear power plants in the U.S. today compared to 40 years ago?
36. How do electric generators work?
How is electricity generated in a coal-fired power plant?
37. How do oil and natural gas form?
38. How is most of the energy in the U.S. used?
39. What is nuclear fusion?
40. What is a hybrid car?
41. Differentiate between renewable and nonrenewable energy. Give examples of each.
42. What is the energy source for a geothermal power plant?
43. What is energy efficiency?