Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Chapter 6 Review Sheet**

1. What do all organisms on Earth share?
2. What necessities do humans take from their ecosystem?
3. Why do ecologists call these necessities “ecological goods and services?”
4. What are 4 human activities that affect the biosphere?
5. How did humans obtain food for most of human history?
6. What is agriculture?
7. In the 1800s and 1900s advances in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ set the stage for a remarkable change in agriculture.
8. List these 5 changes.
9. What is monoculture?
10. How has the Green Revolution helped world food production over the last 50 years?
11. What 2 challenges has modern agriculture brought around?
12. What did the Industrial Revolution add to the world?
13. Where does the energy to power machinery come from?
14. What are renewable resources?
15. Explain why a tree can be considered a renewable resource.
16. What is a nonrenewable resource?
17. What are examples of nonrenewable resources?
18. What is sustainable development?
19. What 3 things does land provide for humans?
20. What is fertile soil?
21. What is soil erosion?
22. What causes soil erosion?
23. What is desertification?
24. What can cause desertification?
25. List the 7 important ecological functions of forests.
26. Temperate forests are renewable/nonrenewable (circle one)
27. Old-growth forests are renewable/nonrenewable (circle one)
28. How long does it take to produce old growth forests?
29. What is deforestation?
30. Mature trees can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_ selectively to promote the growth of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ trees and preserve the forest ecosystem.
31. Fishes and other animals that live in the water are a valuable source of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
32. What is overfishing?
33. What is aquaculture?
34. What is smog?
35. What are 2 causes of smog?
36. What is a pollutant?
37. The burning of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can release pollutants.
38. How is acid rain formed?
39. **Study the acid rain pictures in your notes.**
40. How does acid rain kill plants?
41. How many liters of freshwater do Americans use daily?

Matching

1. The variety of habitats, communities, and ecological processes in the living world
2. The sum total of all the different forms of genetic information carried by all organisms on Earth today.
3. The sum total of the genetically based variety of all organisms in the biosphere
4. The number of different species in the biosphere.
5. \_\_\_\_\_ Biodiversity
6. \_\_\_\_\_ Ecosystem Diversity
7. \_\_\_\_\_ Species Diversity
8. \_\_\_\_\_ Genetic Diversity
9. Biodiversity is one of Earth’s greatest natural \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. Species of many kinds have provided us with 3 things. What are they?
11. Human activity can reduce biodiversity in 4 ways. What are they?
12. When does extinction occur?
13. What is an endangered species?
14. When land is developed, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ habitats may be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
15. What is habitat fragmentation?
16. Throughout history, humans have pushed some animal species to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by hunting them for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. DDT was one of the first \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
18. What are the 2 hazardous properties of DDT?
19. What is meant by nonbiodegradable?
20. What is biological magnification?
21. Be able to explain how fish-eating birds have such high levels of DDT in their tissues.
22. What are invasive/introduced species?
23. List 2 examples of introduced species.
24. What 2 systems are human activities greatly affecting?
25. How far above the earth is a high concentration of ozone gas located?
26. What is the ozone layer?
27. What does the ozone layer absorb a lot of?
28. What does UV stand for?
29. What are the negative effects of UV radiation?
30. In the \_\_\_\_\_\_\_\_\_\_, scientists discovered a hole in the ozone layer over \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
31. What chemical (used to be found in aerosol cans) caused this hole.
32. Many ecologists are concerned about strong evidence that the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
33. What is global warming?
34. What is one sign of global warming?
35. The geological record shows that Earth’s climate has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ during its history.
36. True or False: A widely accepted hypothesis is that the current warming is related in part to human activities.
37. Which 2 human activities add carbon dioxide (CO2) into the atmosphere?
38. How much will global surface temperatures increase by the year 2050? (predicted)
39. What would this increase do to costal communities?
40. What would this increase do to parts of North America?