

# Unit 7B Study Guide

## Chapter 16

1. What is **waste**? How is it a system?
2. How did United States become a *throw-away society*? What is *planned obsolescence*?
3. What is **MSW**? What makes up the biggest component of MSW?
4. What's the story with **e-waste**?
5. What are the **3Rs**? What about the 5Rs?
6. Why are the Rs *ordered* in the way that they are? Is it by accident?
7. Be familiar with several **examples** of each of the major Rs.
8. What's the difference between *open-loop* and *closed-loop recycling*?
9. What might be some ways to *encourage* recycling?
10. What is **composting**?
11. What are environmental benefits to composting?
12. Be familiar with the approximate percentages of where MSW ends up in the United States (page 568)
13. What is **leachate**? Try the math out on page 572.
14. What is a **sanitary landfill**? How is it different than an open dump?
15. What is *NIMBY*? What is *environmental justice*?
16. Why doesn't the United States **incinerate** more MSW?
17. Be able to identify *positives* and *negatives* of incinerating MSW.
18. What is **hazardous waste**? What are some household examples?
19. Name the two largest classes of hazardous waste. Know several examples.
20. What is **RCRA**? What about **CERCLA**?
21. What's the big deal about *Love Canal*?
22. What is life-cycle analysis? What is it also known as?
23. What is **IMW**?
24. Be familiar with various strategies of integrated waste management.
25. Be able to explain the "*Spaceship Earth*" analogy and how it relates to waste.

## Chapter 17

26. What is an **infectious disease**?
27. What are the three most common infectious diseases?
28. Explain the difference between *acute* and *chronic* diseases.
29. Be familiar with the leading causes of death (page 592)
30. What is a **risk factor**? What are common examples for developed countries?
31. Be familiar with the wide variety of infectious diseases: *plague, malaria, tuberculosis, HIV/AIDS, Ebola, mad cow disease, swine/bird flu, SARS, West Nile virus.*
32. Be familiar with the five chemical categories: *neurotoxins, carcinogens, teratogens, allergens, endocrine disruptors.* (page 602)
33. What are **dose-response** studies? What are the limitations?
34. What is **LD50**? What about **ED50**?
35. What are *synergistic interactions*? What are some examples?
36. What are **bioaccumulation** and **biomagnification**?
37. Be able to follow the connection between air/water pollution and high levels of *dangerous contaminants* at the top of food chains.
38. What is **risk analysis**?
39. What are some causes of death that are *quite rare* but Americans *perceive* as being very risky?
40. Be familiar with the *innocent-until-proven-guilty principle* and how it compares to the *precautionary principle*.
41. What is the **Stockholm Convention**?

Now go quiz yourself with the questions on pages **586-587** and **622-626**!