

Skills Worksheet

# Study Guide – Ch 19

## MATCHING

In the space provided, write the letter of the term or phrase that best matches the description.

- |                    |  |
|--------------------|--|
| a. compost         | f. Resource Conservation and Recovery Act (RCRA) |
| b. biodegradable   | g. incinerator                                   |
| c. landfill        | h. mining waste                                  |
| d. solid waste     | i. leachate                                      |
| e. hazardous waste | j. surface impoundment                           |

- \_\_\_ 1. any discarded solid material
- \_\_\_ 2. can be broken down by biological processes
- \_\_\_ 3. requires producers of hazardous waste to keep records of how wastes are handled
- \_\_\_ 4. place to dispose of waste by burying it
- \_\_\_ 5. water that contains dissolved chemicals from wastes that have been buried
- \_\_\_ 6. rocks and minerals left over from excavation and processing
- \_\_\_ 7. facility for burning trash
- \_\_\_ 8. nutrient-rich material made from decomposed plant and animal materials
- \_\_\_ 9. any toxic, corrosive, or explosive waste
- \_\_\_ 10. process used for disposing of wastes involving a pond with a sealed bottom

## MULTIPLE CHOICE

In the space provided, write the letter of the word or statement that best answers the question or completes the sentence.

- \_\_\_ 11. Solid waste includes all of the following *except*

a. agricultural waste.	c. plastics.
b. methane.	d. food waste.
- \_\_\_ 12. The ash produced when solid waste is incinerated is \_\_\_\_\_ than the original solid waste.

a. less toxic	c. as toxic
b. more toxic	d. more recyclable

**Study Guide** *continued*

- \_\_\_\_\_ 13. If an owner of a business illegally dumps hazardous waste, which law allows the EPA to sue the owner and force the owner to pay for the cleanup?
- the Superfund Act
  - the Incinerator Act
  - RCRA
  - the Love Canal Act
- \_\_\_\_\_ 14. Surface impoundment includes which physical process?
- decontamination
  - evaporation
  - injection
  - all of the above
- \_\_\_\_\_ 15. One disadvantage of biodegradable plastic is that
- it has to be blended with plant sugars in order to be useful.
  - it has to be left in the sun for months before it can begin to degrade.
  - it is toxic and useful only in industry.
  - the plastic parts are reduced to smaller pieces but are not completely degraded.
- \_\_\_\_\_ 16. Which regulation requires producers of hazardous wastes to document how their wastes are handled?
- the Superfund Act
  - the Resource Conservation and Recovery Act
  - the United States Environmental Protection Agency (EPA)
  - the Love Canal Act
- \_\_\_\_\_ 17. Which of the following is the most important function of a landfill?
- to provide leachate for other industrial processes
  - to contain buried waste and prevent it from contaminating the environment.
  - to be as inexpensive as possible to build
  - all of the above
- \_\_\_\_\_ 18. Which of the following would *not* reduce the amount of municipal solid waste going to landfills?
- composting yard waste
  - eliminating recycling programs
  - reusing products
  - all of the above

# CHAPTER 19 Review

## Reviewing Key Terms

Use each of the following terms in a separate sentence.

1. *source reduction*
2. *leachate*
3. *municipal solid waste*
4. *biodegradable*
5. *recycling*

Use the correct key term to complete each of the following sentences.

6. \_\_\_\_\_ is any waste that is a risk to the health of humans or other living things.
7. A dark brown, crumbly material made from decomposed matter is called \_\_\_\_\_.
8. A \_\_\_\_\_ is a waste disposal facility where wastes are put in the ground and covered each day with a layer of dirt, plastic, or both.
9. **Concept Map** Use the following terms to create a concept map: *solid waste, hazardous waste, landfills, types of waste, surface impoundment, methods of waste disposal, incineration, and deep-well injection.*

## Reviewing Main Ideas

10. Solid waste includes all of the following except
  - a. newspaper and soda bottles.
  - b. food scraps and yard clippings.
  - c. ozone and carbon dioxide.
  - d. junk mail and milk cartons.
11. If your shirt is partly cotton and partly polyester, what part is biodegradable?
  - a. cotton.
  - b. polyester.
  - c. both (a) and (b).
  - d. none of the above.
12. Microorganisms are unable to break down plastics because plastics
  - a. are made from oil.
  - b. are too abundant.
  - c. are made of unknown elements.
  - d. do not occur in nature.
13. Municipal solid waste is approximately what percentage of all solid waste?
  - a. 2 percent
  - b. 20 percent
  - c. 60 percent
  - d. 90 percent
14. Leachate is a substance that
  - a. is produced in a compost pile.
  - b. is a byproduct of bacterial digestion.
  - c. is produced by incinerators.
  - d. contains dissolved toxic chemicals.
15. Which of the following is not a benefit of incinerating waste?
  - a. It reduces the material sent to landfills.
  - b. It produces energy in the form of heat.
  - c. It can be used to produce electricity.
  - d. It neutralizes all of the toxic materials.
16. Manufacturers could reduce waste and conserve resources by making products that
  - a. use more materials.
  - b. are more durable.
  - c. are difficult to repair.
  - d. are disposable.
17. Which of the following is one way to reduce an over-supply of recyclable materials?
  - a. build more recycling plants
  - b. increase the types of recyclable materials
  - c. increase the demand for products made from recycled materials
  - d. put the excess materials in landfills
18. Most of the municipal solid waste in the United States is
  - a. stored in landfills.
  - b. recycled.
  - c. incinerated.
  - d. None of the above