



## Chapter Review

# Bacteria

### Part A. Vocabulary Review

**Directions:** Select the term from the following list that matches each description.

**aerobe**

**endospore**

**vaccine**

**anaerobe**

**nitrogen-fixing bacteria**

**pathogen**

**antibiotic**

**toxin**

**flagella**

**saprophyte**

- \_\_\_\_\_ 1. made from damaged particles from bacterial cell walls or from killed bacteria and used to prevent certain diseases
- \_\_\_\_\_ 2. whiplike tails that help bacteria move
- \_\_\_\_\_ 3. an organism that uses oxygen for respiration
- \_\_\_\_\_ 4. an organism that lives without oxygen
- \_\_\_\_\_ 5. any organism that uses dead material as a food and energy source
- \_\_\_\_\_ 6. type of bacteria in pea plant roots that benefits the plant
- \_\_\_\_\_ 7. any organism that can cause disease
- \_\_\_\_\_ 8. substance used to kill bacteria
- \_\_\_\_\_ 9. poison produced by pathogens
- \_\_\_\_\_ 10. heat-resistant structure in bacteria

**Directions:** Select the term from the following list that matches each description.

**colonies**

**fission**

**nodules**

**cocci**

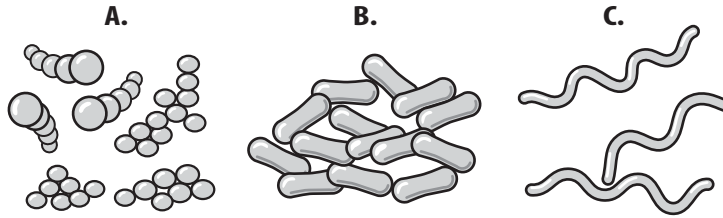
**bacilli**

- \_\_\_\_\_ 11. sphere-shaped bacteria
- \_\_\_\_\_ 12. asexual form of bacterial reproduction
- \_\_\_\_\_ 13. rod-shaped bacteria
- \_\_\_\_\_ 14. growths on roots of pea plants where beneficial bacteria live
- \_\_\_\_\_ 15. globular groups in which many cyanobacteria live

## Chapter Review (continued)

### Part B. Concept Review

**Directions:** Match the bacteria type with each of the following illustrations by writing the correct letter in the space provided.



- \_\_\_\_\_ 1. bacilli  
 \_\_\_\_\_ 2. cocci  
 \_\_\_\_\_ 3. spirilla

**Directions:** Match each helpful use in the first column with an organism in the second column by writing the correct letter in the space provided.

- |                                      |                             |
|--------------------------------------|-----------------------------|
| _____ 4. making medicines            | a. bacteria                 |
| _____ 5. food for fish               | b. cyanobacteria            |
| _____ 6. producing cheese            | c. nitrogen-fixing bacteria |
| _____ 7. decomposing other materials |                             |
| _____ 8. fertilizer                  |                             |
| _____ 9. cleaning up oil spills      |                             |

**Directions:** Answer the following questions on the lines provided.

10. What is botulism? What causes it?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

11. Bacteria live in groups called colonies. Colonies are usually circular. The diameter of a particular bacterial colony is 12 mm. The circumference of a circle is equal to  $\pi$  (3.14) times its diameter ( $C = \pi d$ ).

a. What is the circumference of the colony? \_\_\_\_\_

b. What is the radius of the colony? \_\_\_\_\_