

# Physical Principles in Living Systems

Name:

## Your Cardiovascular System

Period:

Use Chapter 16, Section 1 of your textbook to answer the questions below. The word bank can be used to fill out the sentences below.

atria backward blood blood blood vessel cardiovascular cells circulatory  
heart heart homeostasis organ pumped valves ventricles

### Section 1: The Cardiovascular System (p.496)

1. Your heart is an \_\_\_\_\_ that is part of the cardiovascular system.
2. The root word "cardio" means \_\_\_\_\_.
3. The root word "vascular" means \_\_\_\_\_.
4. Blood vessels carry \_\_\_\_\_ throughout the body.
5. Blood moves through the body because it is \_\_\_\_\_ by the heart.
6. The cardiovascular system can also be called the \_\_\_\_\_ system.

### Your Cardiovascular System

7. The heart and blood vessels are part of the \_\_\_\_\_ system.
8. Blood is pumped through the body when the \_\_\_\_\_ contracts.
9. The cardiovascular system helps maintain \_\_\_\_\_.
10. Cells in your body get oxygen and nutrients from \_\_\_\_\_, and the blood takes carbon dioxide and waste from \_\_\_\_\_.

### The Heart (p.497)

- \_\_\_\_\_ 11. The heart is about the size of which of the following?  
a. your head    b. your nose    c. your thumb    d. your fist
- \_\_\_\_\_ 12. What kind of blood gets sent to the lungs?  
a. type A    b. type B    c. oxygen-rich    d. oxygen-poor
- \_\_\_\_\_ 13. What kind of blood gets sent to the body?  
a. type A    b. oxygen-rich    c. type B    d. oxygen-poor
- \_\_\_\_\_ 14. What are the heart's upper chambers called?  
a. atria    b. ventricles    c. arteries    d. veins
- \_\_\_\_\_ 15. What are the heart's lower chambers called?  
a. atria    b. ventricles    c. arteries    d. veins
16. Look at Figure 2. \_\_\_\_\_ are found between the atria and the ventricles.
- \_\_\_\_\_ 17. What causes the sound of a heartbeat?  
a. atria contracting    b. valves closing    c. ventricles contracting    d. atria relaxing
18. Valves in your heart keep blood from flowing \_\_\_\_\_.
19. Look at Figure 3. In the heart, blood moves from the top chambers ( \_\_\_\_\_ ) into the \_\_\_\_\_.

