

**The Bodies Transport System 14.1**

Date \_\_\_\_\_

Last Name \_\_\_\_\_ First \_\_\_\_\_ period \_\_\_\_\_

1. What are the **3 main components** of the cardiovascular system?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  
2. What is the **function** of the cardiovascular system?
  - a. The function of the cardiovascular system is to \_\_\_\_\_ needed and \_\_\_\_\_ substances to and from the \_\_\_\_\_ of the body.
  
3. How do cells get the oxygen and glucose they need for energy?
  - a. \_\_\_\_\_ carries oxygen from the \_\_\_\_\_ to each \_\_\_\_\_ in the body
  - b. Blood \_\_\_\_\_ glucose from the small \_\_\_\_\_ to each \_\_\_\_\_ in the body
  
4. When cells burn glucose and oxygen for energy, what **kind of waste** is produced?
 

\_\_\_\_\_
  
5. How do cells **get rid of the CO<sub>2</sub>** waste?
  - a. \_\_\_\_\_ carries CO<sub>2</sub> away from the cells and back to the \_\_\_\_\_ where it is exhaled
  
6. How does blood help **fight disease**?
  - a. Blood carries \_\_\_\_\_ that can attack foreign disease causing \_\_\_\_\_ that get into the system.

7. What is the **function of the heart**?

- a. The heart \_\_\_\_\_ throughout the body
- a. How large is the human heart? \_\_\_\_\_
- b. What 2 sounds does the heart make when it pumps? \_\_\_\_\_

8. How many **chambers** does the mammalian heart have, and what is the name of each chamber?

- a. The mammal heart has \_\_\_\_\_ chambers
- b. The names of the heart chambers are:
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_

9. What are **heart valves** and what is their function?

- a. Heart \_\_\_\_\_ are flaps of \_\_\_\_\_ that open and \_\_\_\_\_ to let blood flow between the \_\_\_\_\_ of the heart.
- b. Valves insure the blood flows in the \_\_\_\_\_
- c. The names of 4 valves in the heart are:
  1. \_\_\_\_\_ valve
  2. \_\_\_\_\_ valves
  3. \_\_\_\_\_ valve
  4. \_\_\_\_\_ valve

10. What are **blood vessels**?

- a. Blood vessels are \_\_\_\_\_ that carry \_\_\_\_\_ .
- b. \_\_\_\_\_ carry blood away from the heart.
- c. \_\_\_\_\_ carry blood back to the heart.
- d. \_\_\_\_\_ are tiny vessels that bring blood to every cell.

11. **Color the blood** in the veins leading into the heart blue and the blood in the arteries leading away from the heart red.

