

Physical Principles in Living Systems

Blood Vessels, Circulation, & Problems

Name:

Period:

Use Chapter 16, Section 1 of your textbook to answer the questions below.

Blood Vessels (p.498)

1. Hollow tubes that carry blood in your body are called _____ .



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Arteries (p.498)

2. Arteries carry blood _____ from the heart.

3. The walls of arteries can _____ , which allows them to handle the pressure of pumping blood.

4. When your heart squeezes (contracts) to pump blood, this is called your _____ .

5. Look at Figure 4. Compared to the walls of a vein, are the walls of an artery thick or thin? _____

Capillaries (p.498)

6. The tiniest blood vessels are called _____ .

7. The walls of capillaries are just _____ cell thick.

8. Blood cells must line up single-file in capillaries, because the capillaries are so _____ .

Veins (p.498)

9. Veins carry blood _____ the heart.

10. In veins there are _____ that keep blood from flowing backwards.

11. The contraction of nearby _____ helps to push blood towards the heart.

12. Look at Figure 4. Compared to the walls of an artery, are the walls of a vein thick or thin? _____

Two Types of Circulation (p.499)

13. Blood gets the oxygen for your body from the _____ .

14. At the lungs, your body gets rid of this gas: _____ .

15. The flow of blood between heart and _____ is pulmonary circulation.

16. The flow of blood between heart and _____ is systemic circulation.

17. Look at Figure 5. What kind of blood is pumped to the lungs? _____

18. Look at Figure 5. What kind of blood is pumped to the body? _____

19. Look at Figure 5. Blood goes into _____ after it has been in an artery.

turn over for more questions

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Cardiovascular Problems (p.500)

- _____ 20. What can lower the risk of cardiovascular problems?
- a. smoking
 - b. eating a healthy diet and exercising
 - c. having high levels of cholesterol
 - d. avoiding exercise

Atherosclerosis (p.500)

- _____ 21. What is cholesterol buildup in an artery called?
- a. hypertension
 - b. heart attack
 - c. heart failure
 - d. atherosclerosis
- _____ 22. What can cause a narrowing of the arteries?
- a. stroke
 - b. heart attack
 - c. heart failure
 - d. atherosclerosis

High Blood Pressure (p.500)

- _____ 23. What is another name for high blood pressure?
- a. hypertension
 - b. heart attack
 - c. stroke
 - d. atherosclerosis
- _____ 24. What can happen when a brain artery clogs?
- a. heart failure
 - b. heart attack
 - c. stroke
 - d. atherosclerosis

Heart Attacks and Heart Failure (p.501)

- _____ 25. What can happen when the heart muscle does not get enough blood?
- a. hypertension
 - b. heart attack
 - c. heart failure
 - d. atherosclerosis
- _____ 26. What happens when the heart cannot pump enough blood?
- a. hypertension
 - b. heart attack
 - c. heart failure
 - d. atherosclerosis

