

Review Questions: Circulatory System

TRUE or FALSE: State if the following are false or true, if false then correct the statement:

1. Blood is a type of *circulatory* tissue that travels throughout all parts of the body. _____
2. If a doctor found that a patient's platelet count was low, his primary concern would be the patient's ability to *fight infection*. _____
3. The two numbers represented in a person's blood pressure represent the pressure of blood travelling from the heart and *the pulse*. _____
4. The infection-fighting cells found in blood are *red* blood cells. _____
5. The body's main form of transportation for things it needs, like oxygen and nutrients, is the *digestive* system. _____
6. In order to attack an infection in a cut, the body produces *white* blood cells. _____
7. Connective tissue is involved in the transport of oxygen throughout the organism. _____

Multiple Choice

8. Various types of cells and fibres held together by a matrix are called:
 - a. epithelial tissue
 - b. muscle tissue
 - c. nerve tissue
 - d. connective tissue
9. Hemoglobin allows red blood cells to:
 - a. transport oxygen
 - b. destroy bacteria
 - c. clot
 - d. be transported
10. The heart is composed of all of the following tissues, *except*:
 - a. connective
 - b. muscle
 - c. epithelial
 - d. nerve
11. What is coronary artery disease?
 - a. a weakened heart
 - b. a virus
 - c. partially blocked coronary arteries
 - d. holes in the coronary arteries

Matching

Match each function of the circulatory system with the correct blood vessel. Answer choices may be used more than once.

| | Blood Vessel: | a. veins | b. arteries | c. capillaries |
|------------|---------------|--|-------------|----------------|
| Question # | Answer | Question | | |
| 12 | | allows oxygen and nutrients diffuse from the blood into the surrounding tissues | | |
| 13 | | carries blood away from the heart | | |
| 14 | | walls of this vessel not as thick | | |
| 15 | | Carbon dioxide and other wastes pass from the body tissues into the blood to be carried away for disposal. | | |
| 16 | | blood pumped at the greatest pressure | | |

Short Questions

17. Why is the number of platelets in blood important?
18. What is the role of the heart?
19. The circulatory system is a transportation system. Use an analogy of a roadway to explain how this system functions.
20. What information is provided by the measurement of a pulse?
21. How can the measurement of the blood pressure be used to determine the health of the circulatory system?
22. Use an example to explain what is meant by the term blood pressure.
23. What information can be gained from analysis of a blood sample?
24. Show how measurement of systolic pressure and diastolic pressure may be used to determine the effectiveness of the circulatory system.
25. Explain why a person with a low red blood cell count would be likely to experience tiredness and fatigue.