Chapter 23 The Circulatory System

## True or False

### Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_

*Write true if the statement is true or false if the statement is false.*

\_\_\_\_\_ 1. The heart has four chambers: two upper ventricles and two lower atria.

\_\_\_\_\_ 2. Capillaries are the largest of the blood vessels.

\_\_\_\_\_ 4. Blood is a connective tissue.

\_\_\_\_\_ 5. The systemic circulation carries blood between the heart and body.

\_\_\_\_\_ 6. The pulmonary circulation carries blood between the heart and body.

\_\_\_\_\_ 7. White blood cells carry oxygen in the blood.

\_\_\_\_\_ 9. Cells in blood include red blood cells, white blood cells, green blood cells, and platelets.

\_\_\_\_\_ 10. ABO blood type is determined by three common antigens, often referred to as antigens A, B, and O.

\_\_\_\_\_ 12. Blood pressure is highest in the veins and lowest in the arteries.

\_\_\_\_\_ 14. Platelets release chemicals that are needed for blood clotting.

## Multiple Choice

*Circle the letter of the correct choice.*

1. **The materials carried by the circulatory system include which of the following?**

**(1) blood, (2) hormones, (3) oxygen, (4) cellular wastes.**

* 1. 1 only
  2. 1 and 2
  3. 1, 2, and 3
  4. 1, 2, 3, and 4

1. **The correct order of blood flow is**
   1. aorta → right atrium → right ventricle → lungs → left atrium → left ventricle → vena cava.
   2. vena cava → right atrium → right ventricle → lungs → left atrium → left ventricle → aorta.
   3. vena cava → left atrium → left ventricle → lungs → right atrium → right ventricle → aorta.
   4. aorta → left atrium → left ventricle → lungs → right atrium → right ventricle → vena cava.
2. **The major blood vessels include**
   1. arteries.
   2. veins.
   3. capillaries.
   4. all of the above.
3. **Which statement is correct?**
   1. The pulmonary circulation carries blood between the heart and lungs, while the systemic circulation carries blood between the heart and body.
   2. The systemic circulation carries blood between the heart and lungs, while the pulmonary circulation carries blood between the heart and body.
   3. The systemic circulation carries blood between the heart and lungs, while the pulmonary circulation carries oxygen between the heart and body.
   4. The pulmonary circulation carries oxygen between the heart and lungs, while the systemic circulation carries blood between the heart and body.
4. **Blood…**
   1. in veins carries carbon dioxide and nutrients, while blood in arteries carries oxygen and other wastes.
   2. in veins carries oxygen and nutrients, while blood in arteries carries carbon dioxide and other wastes.
   3. in arteries carries oxygen and nutrients, while blood in veins carries carbon dioxide and other wastes.
   4. in arteries carries carbon dioxide and nutrients, while blood in veins carries oxygen and other wastes.
5. **Plasma includes**
6. white blood cells.
7. red blood cells.
8. platelets.
9. all of the above.

**7. Roles of blood include which of the following? (1) defending the body against infection, (2) repairing body tissues, (3) transporting water from the lungs to body cells (4) controlling the body’s pH.**

1. 1 and 2
2. 1, 2, and 3
3. 1, 2, and 4
4. 1, 2, 3, and 4

**Vocabulary I**

*Match the vocabulary word with the proper definition.*

### Definitions

\_\_\_\_\_ 1. the smallest type of blood vessel

\_\_\_\_\_ 2. the part of the circulatory system that carries blood between the heart and body

\_\_\_\_\_ 4. transports materials from one place to another

\_\_\_\_\_ 5. blood vessel that carries blood toward the heart

\_\_\_\_\_ 6. carries oxygen

\_\_\_\_\_ 7. a fluid connective tissue

\_\_\_\_\_ 8. muscular blood vessel that carries blood away from the heart

\_\_\_\_\_ 9. the buildup of plaque inside arteries

\_\_\_\_\_ 10. the fluid part of blood

\_\_\_\_\_ 11. the part of the circulatory system that carries blood between the heart and lungs

### Terms

1. artery
2. atherosclerosis
3. blood
4. capillary
5. circulatory system
6. plasma
7. pulmonary circulation
8. red blood cell
9. systemic circulation
10. vein