

**SECTION 47-1 REVIEW****THE CIRCULATORY SYSTEM**

**VOCABULARY REVIEW** Distinguish between the terms in each of the following pairs of terms.

1. ventricle, atrium \_\_\_\_\_  
\_\_\_\_\_
2. sinoatrial node, atrioventricular node \_\_\_\_\_  
\_\_\_\_\_
3. systolic pressure, diastolic pressure \_\_\_\_\_  
\_\_\_\_\_
4. arteriole, venule \_\_\_\_\_  
\_\_\_\_\_

**MULTIPLE CHOICE** Write the correct letter in the blank.

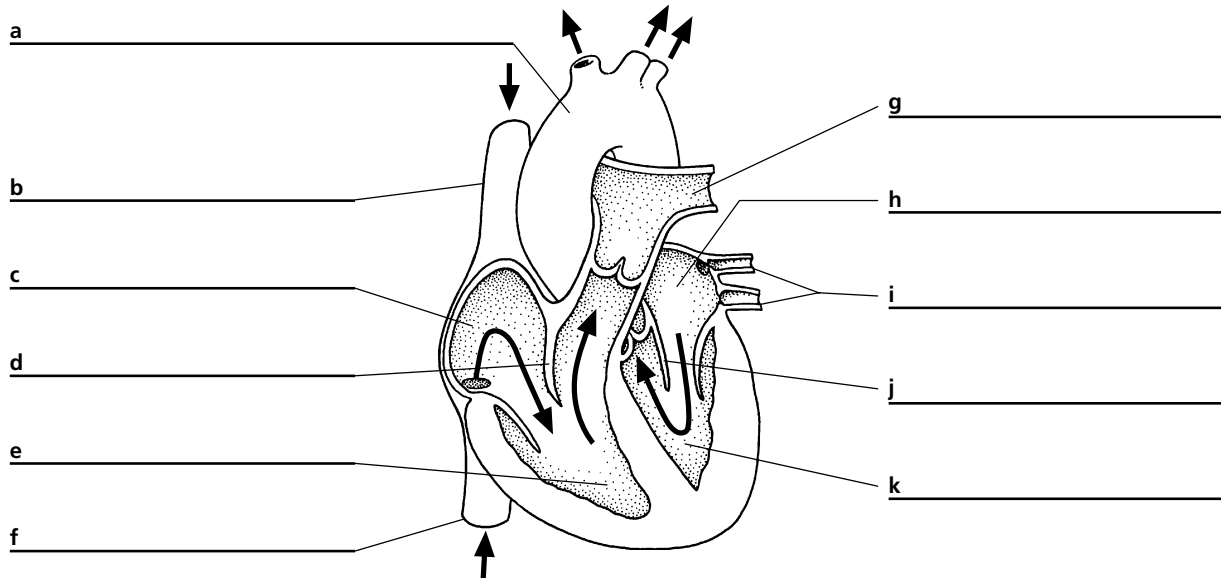
- \_\_\_\_\_ 1. Which of the following is most important to the heartbeat?  
a. aortic valve      b. sinoatrial node      c. lymph node      d. tricuspid valve
- \_\_\_\_\_ 2. During its circulation from the left atrium to the left ventricle, what percentage of the blood enters the pulmonary circulation?  
a. 25%      b. 50%      c. 100%      d. None of the above
- \_\_\_\_\_ 3. Exchange of nutrients and waste between blood and body tissues occurs across  
a. arterioles.      b. capillaries.      c. arteries.      d. veins.
- \_\_\_\_\_ 4. Which one of the following characteristics is unique to the pulmonary circulation?  
a. capillaries that exchange gases with the surrounding tissue  
b. arteries that carry blood away from the heart  
c. an artery that originates at the right ventricle  
d. an artery that originates at the right atrium
- \_\_\_\_\_ 5. The lymphatic system is important for the normal function of the body because it  
a. carries newly formed blood to the cardiovascular system.  
b. returns excess intercellular fluid to the cardiovascular system.  
c. provides an alternate route for blood during strenuous exercise.  
d. carries oxygen to the lymph nodes.

**SHORT ANSWER** Answer the questions in the space provided.

1. Distinguish between pulmonary circulation and systemic circulation. \_\_\_\_\_  
\_\_\_\_\_
2. Trace the flow of blood through the heart. \_\_\_\_\_  
\_\_\_\_\_
3. Describe the function of the lymphatic system. \_\_\_\_\_  
\_\_\_\_\_
4. **Critical Thinking** If the aortic valve could not close completely, would the diastolic pressure or systolic pressure be affected the most? Explain your answer. \_\_\_\_\_  
\_\_\_\_\_

**STRUCTURES AND FUNCTIONS** Use the figure of the human heart below to answer the following questions.

1. Label each part of the figure in the spaces provided.



2. How would a defect of the mitral valve affect circulation? \_\_\_\_\_  
\_\_\_\_\_

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