Name _____ Class _____ Date _____

SECTION 46-1 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. artery, vein _____

4. pulmonary circulation, systemic circulation _____

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.

Name _____ Class _____ Date _____

SHORT ANSWER Answer the questions in the space provided.

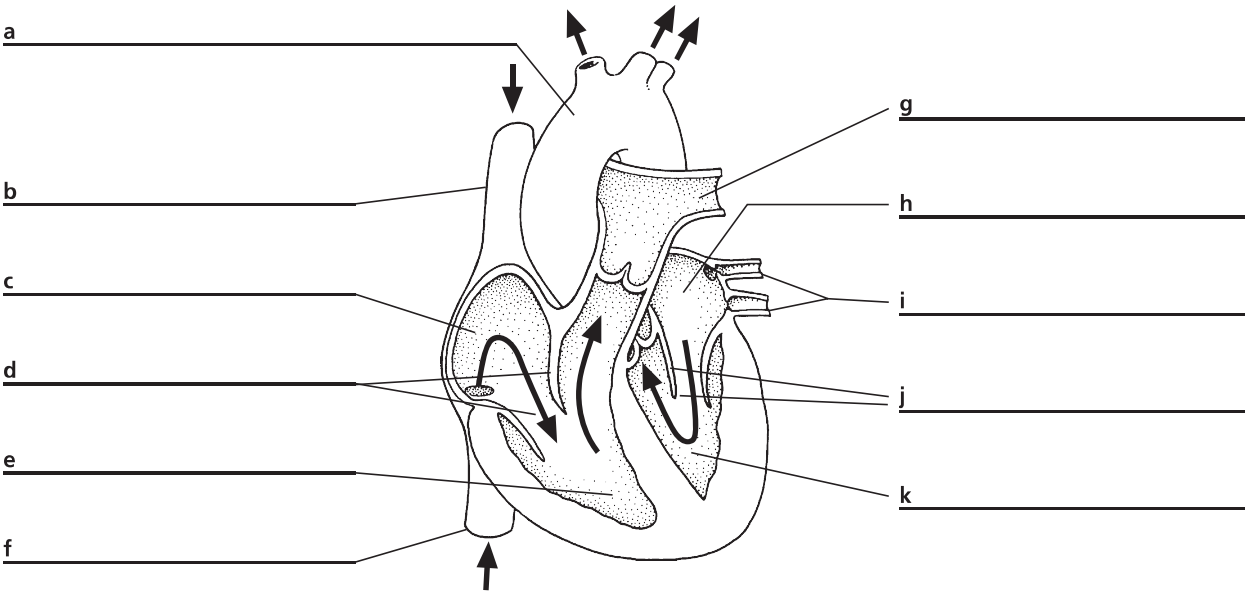
1. Trace the flow of blood through the heart. _____

2. Describe the function of the lymphatic system. _____

3. **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? _____