Name _____

Date _____

Section _____

The ▯ corresponds to the indicated Learning Outcome(s) listed at the beginning of the laboratory exercise.

Heart Structure

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Part A Assessments

Match the terms in column A with the descriptions in column B. Place the letter of your choice in the space provided. 2

Column A	Column B
a. Aorta	_____ **1.** Structure from which chordae tendineae originate
b. Cardiac vein	_____ **2.** Prevents blood movement from right ventricle to right atrium
c. Coronary artery	_____ **3.** Membranes around heart
d. Coronary sinus	_____ **4.** Prevents blood movement from left ventricle to left atrium
e. Endocardium	_____ **5.** Gives rise to left and right pulmonary arteries
f. Mitral valve	_____ **6.** Drains blood from myocardium into right atrium
g. Myocardium	_____ **7.** Inner lining of heart chamber
h. Papillary muscle	_____ **8.** Layer largely composed of cardiac muscle tissue
i. Pericardial cavity	_____ **9.** Space containing serous fluid to reduce friction during heartbeats
j. Pericardial sac	_____ **10.** Drains blood from myocardial capillaries
k. Pulmonary trunk	_____ **11.** Supplies blood to heart muscle
l. Tricuspid valve	_____ **12.** Distributes blood to body organs (systemic circuit) except lungs

Part B Assessments

Complete the following:

1. Compare the structure of the right atrioventricular valve with that of the pulmonary valve. 3

_____

_____

_____

_____

2. Describe the action of the right atrioventricular valve when you squeezed the water-filled right ventricle. 3

_____

_____

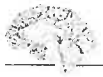
_____

_____

3. Describe the function of the chordae tendineae and the papillary muscles. 3

4. What is the significance of the difference in thickness between the wall of the aorta and the wall of the pulmonary trunk? 3

5. List in order the major blood vessels, chambers, and valves through which blood must pass in traveling from a vena cava to the aorta. 3



Critical Thinking Application

What is the significance of the difference in thickness of the ventricular walls? 3