Lab 5 Heart and blood vessels

Name	Seat number

Objectives:

- A. The heart
- B. Blood flow through the heart
- C. Questions

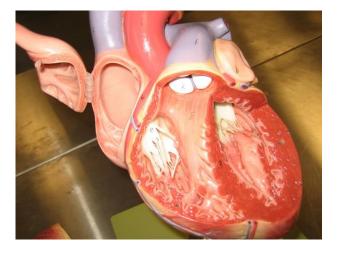
A. The heart

Identify the following on the heart models

- 1. The four chambers of the heart and the auricles
 - a. Right and left atria
 - b. Right and left ventricles
 - c. Right and left auricles (atrial appendages)
- 2. The valves
 - a. Right atrioventricular valve (tricuspid valve)
 - b. Left atrioventricular valve (bicuspid valve, mitral valve)
 - c. Pulmonary semilunar valve
 - d. Aortic semilunar valve
- 3. Coronary blood vessels
 - a. Right coronary artery
 - b. Left anterior descending (LAD) coronary artery
- 4. Other vessels
 - a. Pulmonary trunk
 - b. Arteries and veins
 - c. Superior and inferior venae cavae
 - d. Aorta and aortic arch

B. Blood flow through the heart

- 1) Determine which of the following heart circulation parts deal with oxygenated blood and which deal with deoxygenated blood
- 2) Using the red/blue colored pencils. Color the letters BLUE if the blood is low in O₂. Color the letters RED if the blood is high in O₂. Color the letters PURPLE if there is a mixture of oxygen concentrations.
- 3) Once you have finished coloring the letters, cut out each rectangle.
- 4) Using a blank sheet of white paper place, *glue* the rectangles in the correct order of blood flow beginning with entrance of deoxygenated blood into the heart.



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pulmonary semilunar valve	
pulmonary veins	
left ventricle	
pulmonary/trunk arteries	
left AV valve (bicuspid)	
lungs	
right atrium	
descending aorta	
right AV valve (tricuspid)	
aortic semilunar valve	
superior and inferior vena cava	
left atrium	
right ventricle	
aortic arch	

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C.	Questions:
1)	The AV valves separate the from the
2)	The pulmonary semilunar valve allows blood to flow from the to the
3)	valves use chordae tendineae to help them close andvalves do not.
4)	Blood coming from the lower extremities must go through the (name a vessel) to
	enter the inferior vena cava and blood comes from (name a part of the body) to
	enter the superior vena cava.
5)	List the blood pathway from the left ventricle back to the right atrium as it flows to the legs.
6)	What medical emergency might happen if there is plaque in a coronary artery? (Scientific term)
7)	What medical emergency might happen if there is plaque in a carotid artery or any cerebral
	artery? (Scientific term)