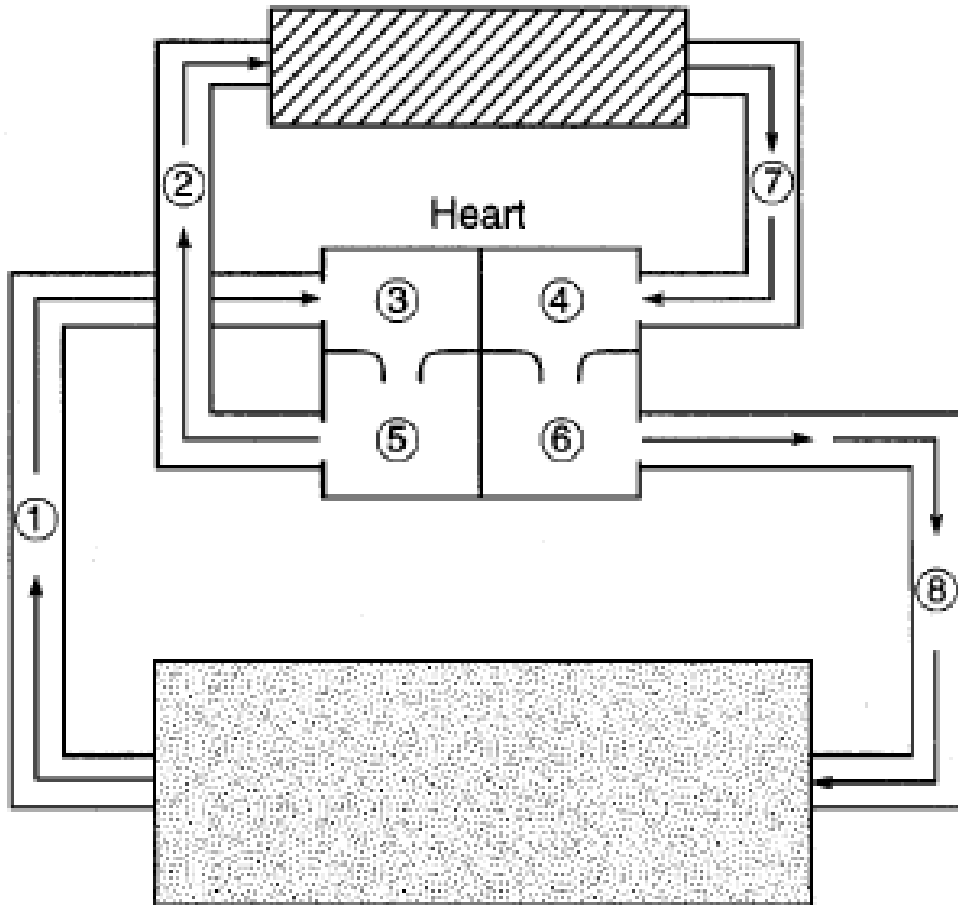


## The Cardiovascular System Review Sheet

1. Explain the differences between veins, arteries, and capillaries.
2. What are the names of the two major “paths” that lead to the right atrium of the heart? Where do they get their names?
3. Which three major arteries originate from the aortic arch?
4. What is the destination of the blood leaving each of the three major arteries from the question above?
5. What are pulmonary veins and arteries?
6. Detail the function of both the pulmonary veins and arteries. Explain where the blood is being moved and what levels of CO<sub>2</sub> and O<sub>2</sub> (high or low) each carries.
7. The heart is divided into two top chambers and two bottom chambers. What is the name and overall function of each of these two sections?
8. Describe the function of the left atrium.
9. Describe the function of the left ventricle.
10. Describe the function of the right atrium.
11. Describe the function of the right ventricle.
12. Describe the function of the mitral valve.
13. Describe the function of the tricuspid valve.
14. What is an atrioventricular valve? Name two.
15. Describe what would happen if either of the atrioventricular valves leaked.
16. What is the role of the septum?
17. The characteristic sound of the normal heartbeat is typically described by what sound?
18. What do each of the two sounds from the above question represent in terms of the movement of the heart and its valves?
19. If a doctor takes your pulse, what is he/she detecting?
20. Explain the difference between diastolic and systolic pressure.
21. What is the “formula” used to convey blood pressure?
22. What is considered the normal resting blood pressure?
23. An increase in which of the two (diastolic or systolic) typically indicates the potential symptom or cause of a variety of ailments?
24. In veins little pressure remains to force the blood along. Describe how the blood is moved along.

25. Considering the circulatory system is a closed system, and that blood flows through arteries 2-3 times faster than it does through veins, what does this tell you about the total volume of blood in the veins vs the total volume of blood in the arteries at any given moment?
26. Considering that arteries are generally larger what can you infer with respect to the total number of veins vs the total number of arteries?



27. Use the following terms to match up with the sections (1,2,7,8) for the above diagram. (systemic vein, systemic artery, pulmonary vein, pulmonary artery)
28. Indicate the relative levels of  $\text{CO}_2$  and  $\text{O}_2$  (high or low) for sections (1,2,7,8).
29. Which specific regions of the heart are represented by the numbers (3,4,5,6)?
30. What is represented by the small rectangle near the top with the diagonal lines?
31. What is represented by the large rectangle near the bottom with the dotted look?
32. Label the diagram of the heart.

