

HUMAN BIOLOGY – THE VASCULAR PATHWAY

(pp. 86-87)

1. The cardiovascular system includes two circuits: _____ & _____
2. The pulmonary circuit leaves the _____ side of the heart & takes blood to the _____
3. Is it correct to say all arteries carry blood that is high in oxygen and all veins carry blood that is low in oxygen? _____ If no, give an exception to this statement _____
4. Trace blood from the heart to the legs, back to the heart, to the kidneys, and back to the heart:
 - a. Left ventricle
 - b. _____
 - c. _____
 - d. _____
 - e. _____
 - f. _____
 - g. _____
 - h. _____
 - i. Right atrium
 - j. _____
 - k. _____
 - l. _____
 - m. _____
 - n. Lungs
 - o. _____
 - p. _____
 - q. _____
 - r. _____
 - s. _____
 - t. _____
 - u. _____
 - v. _____
 - w. _____
 - x. Right atrium
5. When tracing blood you need only mention the _____, _____, _____, & the _____.
6. In most instances, the artery and the vein that serve the same region are given the same name. Name the artery/vein for each of the following:
 - a. Lungs _____
 - b. Kidney _____
 - c. Intestines _____
 - d. Liver _____
 - e. Leg _____
 - f. Groin _____
7. Sometimes the artery and vein that serves the same region are given a different name.
 - a. Name the artery to the head: _____ the vein _____
 - b. Name the artery to the heart: _____ the vein _____
8. Where are the coronary arteries located? _____

9. Why do the coronary arteries become clogged? _____
10. Where do the cardiac veins empty? _____
11. Hepatic portal system is associated with the _____. The hepatic portal vein connects the villi of the _____ with the liver.
12. What does the liver do? _____. The hepatic vein leaves the liver and enters the _____.
13. Label and color the diagram with red and blue colored pencils indicating oxygenated or deoxygenated blood flow.

