Jonathan Quang 11/15/14

1WW

Prelab #9

1. The heart is dedicated to give double circulation by having one side dedicated to one circuit. In the pulmonary circuit, the right atrium takes in blood from the rest of the body and sends it to the right ventricle. The right ventricle sends blood to the lungs where carbon dioxide is released and oxygen binds to the red blood cell. The oxygenated blood enters the systematic circuit where it is pumped into the left atrium. The blood is sent to the left ventricle, where it is then pumped to the rest of the body. The blood transfers whatever it is carrying to body tissues through capillaries.

2. The heart tissue gets oxygen and nutrients from coronary arteries. In humans, the left and right coronary arteries branch off from the aorta. The aorta gets blood from the left ventricle. Technically, the heart tissue gets oxygen and nutrients from the left ventricle indirectly.

3. The function of valves in the circulatory system is to stop blood from flowing backwards and to regulate the amount of blood flowing. If the valves in the heart are closed, blood will not flow. If they are open, blood will flow. By having the valves open and close in the right sequence, then the blood will flow in one direction.

4.Check attached paper

Works Cited

1. OpenStax College. Anatomy and Physiology. Retrieved November 26, 2014 from http://philschatz.com/anatomy-book/contents/m45985.html.