*Answer the following multiple choice questions by circling the best answer. (6 points each)*

1. Where in the body does deoxygenated blood become oxygenated?

a. the capillaries of the body

b. the superior and inferior vena cava

c. the capillaries of the lungs

d. the aorta

2. Which of the following is not an example of a heart disease or condition?

a. Atrial Fibrillation

b. Myocardial Infarction

c. Congestive Heart Failure

d. All are examples of a heart disease or condition

*Match these parts of the heart to their function. (4 points each)*

|  |  |
| --- | --- |
| 3. Atria – e. | a. Blood vessel that carries deoxygenated blood from the heart to the lungs |
| 4. Aorta – c. | b. Flaps between the left atrium and left ventricle |
| 5. Systole – d. | c. Largest artery of the body; carries oxygenated blood from the heart to the body |
| 6. Mitral Valve – b. | d. Contraction |
| 7. Sinoatrial Node – g. | e. Upper chambers of the heart that receive blood from the body or the lungs |
| 8. Pulmonary Artery – a. | f. Lower chambers of the heart that pump blood out of the heart to the lungs or the body |
| 9. Tricuspid Valve – h. | g. Pacemaker of the heart |
| 10. Ventricles – f. | h. Flaps between the right atrium and right ventricle |

*Use your understanding of the topics we’ve covered to answer the following short answer questions.*

11. Name two functions of the heart. *(5 points for each function)*

a. Pumps oxygenated and nutrient rich blood to the body through blood vessels

b. Pumps deoxygenated blood, containing wastes, to the lungs, where gas exchange occurs

12. List the four valves of the heart, and explain their purpose. (5 points for each valve, 6 points for purpose)

a. Tricuspid valve

b. Pulmonary (Semilunar) valve

c. Mitral (Bicuspid) valve

d. Aortic (Semilunar) valve

e. Purpose: prevent backflow of blood

13. Name two ways to prevent heart disease. *(5 points each)*

a. Don’t smoke or use tobacco

b. Exercise 30 minutes a day

Also eat a heart healthy diet (fruits, veggies, whole grains, nuts, fish, NO saturated/trans fats)

14. What is the term used to describe the idea that the heart’s electrical signal comes from within the heart itself? **Bonus**: Where in the heart does this signal originate? *(10 points, 5 for bonus)*

a. Myogenic control

b. Bonus: Sinoatrial Node