Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Form\_\_\_\_\_\_\_\_\_\_\_

The Heart and Circulation

Answer the following:

|  |  |  |
| --- | --- | --- |
| The two receiving chambers for blood are the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The two discharging chambers for blood are the\_\_\_\_\_\_\_\_\_\_\_\_  The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ separates the heart chambers. | Figure 1. Anatomy of the heart | |
| Using Figure 1, answer the following:  The LEFT side of the heart RECEIVES blood FROM the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The RIGHT side of the heart RECEIVES blood FROM the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The LEFT side of the heart PUMPS blood TO the \_\_\_\_\_\_\_\_  The RIGHT side of the heart PUMPS blood TO the\_\_\_\_\_\_\_\_ |

In the table, fill in whether the part listed contains oxygenated or deoxygenated blood

|  |  |
| --- | --- |
| **Part of the heart** | **Oxygenated (O) / Deoxygenated (D)** |
| Left Ventricle |  |
| Right Ventricle |  |
| Left Atrium |  |
| Right Atrium |  |
| Pulmonary Artery |  |
| Pulmonary Vein |  |
| Superior vena cava |  |
| Inferior vena cava |  |
| Aorta |  |

Use the table above along with Figure 1 to answer the following:

1. The blood in the LEFT side of the heart is oxygenated/deoxygenated. Why is this logical?

2. The blood in the RIGHT side of the heart is oxygenated/deoxygenated. Why is this logical?

3. Blood is changed from an oxygenated state to a deoxygenated state OR from a deoxygenated state to an oxygenated state in our circulatory system. Which change occurs in the……

1. Lung capillaries \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   1. Explain why:
2. • Body capillaries \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   1. Explain why:

4. Where did the blood come from BEFORE it entered the……

Right atrium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Left atrium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Right ventricle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Left ventricle \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pulmonary veins \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pulmonary arteries \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Aorta \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Superior vena cava \_\_\_\_\_\_\_\_\_\_\_\_\_

Inferior vena cava \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lungs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Organs & legs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Head \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. What could happen if a heart valve did not work properly?

6. What is the difference between pulmonary and systemic circulation?