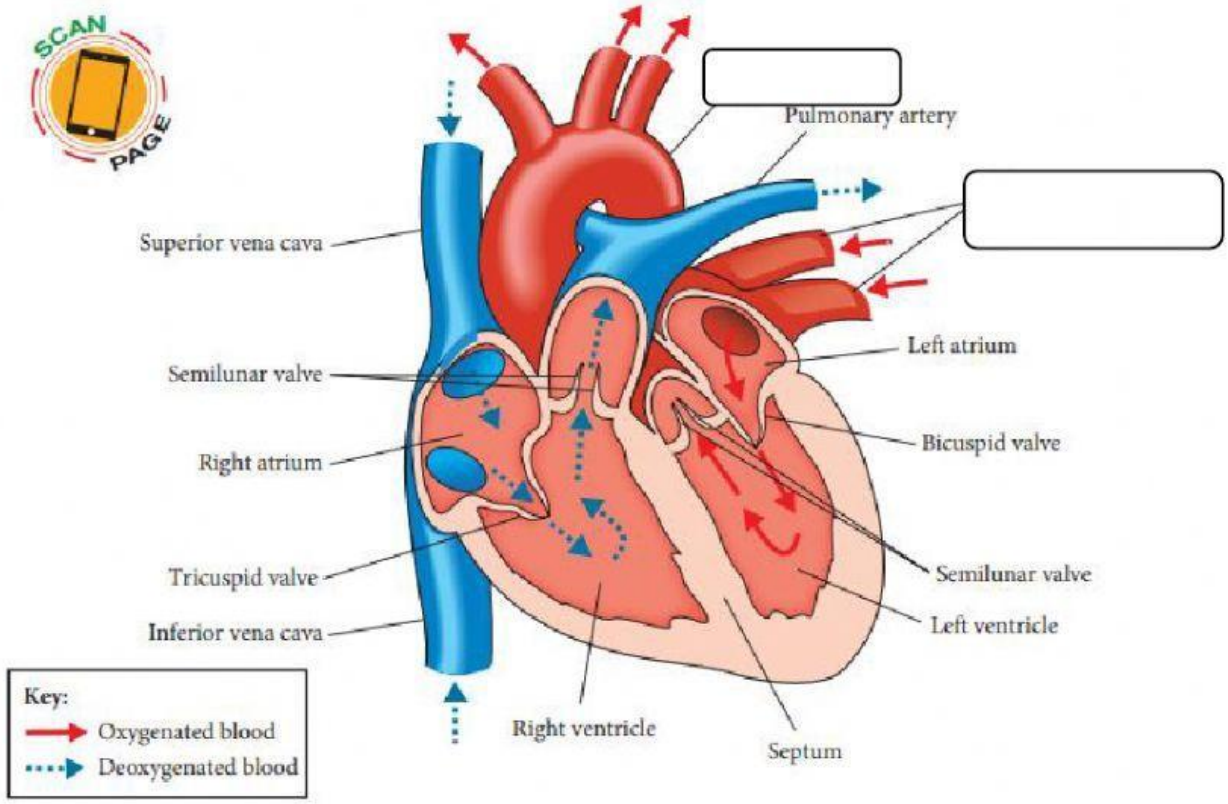
**CHAPTER 3: TRANSPORTATION**




1. Label the blood vessels in the structure above.

2. Drag and drop the correct answer.

| | |
|---|---|
| left ventricle | vena cava |
| valve | pulmonary vein |

a. Oxygenated blood is transported from the lungs to the heart through

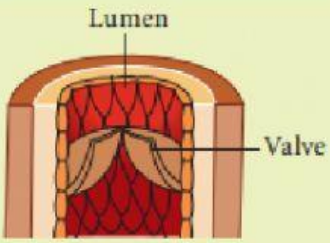
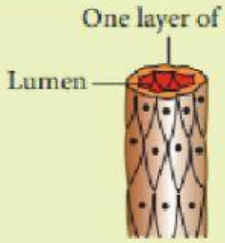
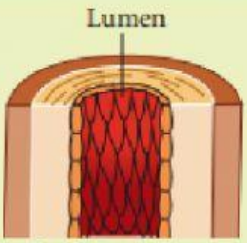
_____.

b. Deoxygenated blood from the whole body excepts the lungs enters the right

atrium through _____.

c. The _____ allow the flow of blood in one direction.

d. The _____ has the thickest muscular wall to transport oxygenated blood to the whole body.

| Type of blood vessel | Vein | Capillary | |
|---|---|---|---|
| Structure |  <br>• **Thin**, less muscular and less elastic wall to facilitate blood flow under low blood pressure<br>• [ ]<br>• **Large** lumen |  <br>• **Thinnest** wall which is one cell thick without any muscle or elastic tissue<br>• **No** valves<br>• **Smallest** lumen |  <br>• [ ] and muscular wall with a lot of elastic tissues to withstand high blood pressure<br>• **No** valves<br>• **Small** lumen |
| Functions | • Transports **deoxygenated blood** back to the heart from the whole body except the lungs<br>• Pulmonary vein transports **oxygenated blood** from the lungs to the heart | • Allows the [ ] **of gases**, **food** and **waste products** between the blood and body cells via diffusion through the thin wall of the capillary | • Transports **oxygenated blood** from the heart to the whole body except the lungs<br>• Pulmonary artery transports **deoxygenated blood** from the heart to the lungs |
| Circulation of blood | • **Slow** blood flow under **low** blood pressure<br>• **No** pulse | • **Slow** blood flow under decreasing blood pressure<br>• **No** pulse | • **Rapid** blood flow under **high** blood pressure<br>• Pulse **detected** |