- 1. There are three blood vessels in the body: arteries, veins, and capillaries.
- a) Identify the blood vessel that best represents each diagram. (3 marks)







b) Identify that blood vessel associated with each description/function. (9 marks)					
	Carry blood towards the heart.				
	Have very thin walls.				
	Carry blood under high pressure.				
	Carry blood away from the heart.				
	Link arteries and veins together.				
	Contain valves ensuring blood flows in one direction.				
	Have thick muscular walls.				
	Carry blood under low pressure.				

2. Which protein is found in red blood cells that allows oxygen and carbon dioxide to bind and travel through the body?

Exchange gas, nutrients, and wastes with tissue cells.

3. Which blood vessels contain valves? What are the functions of these valves?

## 4. a) Use the word bank below to correctly label the different parts of the heart.

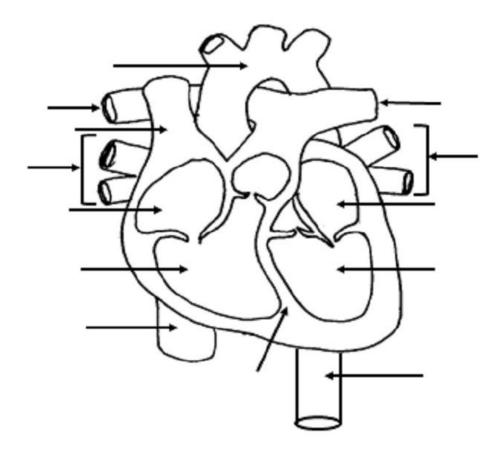
Label the terms by inserting text boxes or writing them by hand.

Highlight the two heart chamber **terms** that carry oxygenated blood **red**.

Highlight the two heart chamber **terms** that carry deoxygenated blood **blue**.

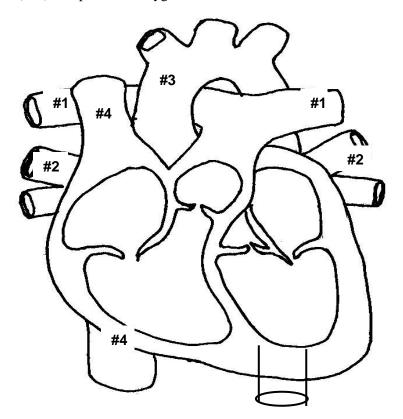
- aorta
- descending aorta
- left atrium
- right atrium
- left pulmonary artery
- right pulmonary artery
- left pulmonary veins
- right pulmonary veins
- inferior vena cava
- superior vena cava

- left ventricle
- right ventricle
- septum



b) What is the main function of the *septum* in the heart? Be specific and descriptive.

5. a) Draw arrows to show the flow of blood through the heart. Use red arrows ( $\rightarrow$ ) to represent oxygenated blood and blue arrows ( $\rightarrow$ ) to represent deoxygenated blood.



h)	Answer the	following	questions	based or	vour la	helled b	eart diagram	ahove
D)	Answertne	10110W11112	questions	Dased Or	i vour ia	репеа г	іеан шаўташ	above.

For the structures identified #1, where is the blood going to? Why?

For the structures identified #2, where is the blood going to?

For the structure identified #3, where is the blood going to?

For the structures identified #4, where is the blood going to? Why?

6. Starting from and ending with the *right atrium*, trace the flow of blood through the heart and body by the numbering (#1-10) the following in the correct order. I started it for you.

1_	right atrium	 lungs
	left atrium	 right ventricle
	pulmonary artery	 left ventricle
	vena cava	 body cells
	aorta	 pulmonary veins