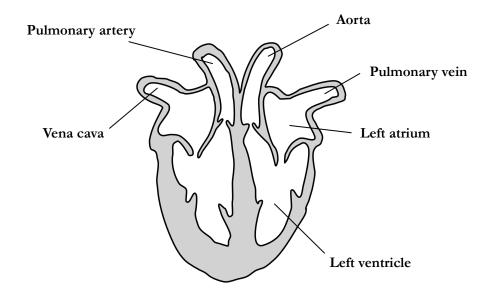


1 What organ system is the heart part of?

Circulatory system

[1 mark.]

2 Label the diagram below



[5 marks]

3 Name the vessel that carries blood from the lungs to the heart

Pulmonary vein

[1 mark.]

4 Explain why the circulatory system is often described as a 'double circulatory system'

It consists of 2 loops.

One carries blood to the lungs and back, the other carries blood to the body and back.

[2 marks]

5 Name the vessel that carries blood out of the left ventricle and state whether is is oxygenated or deoxygenated.

The aorta - carries oxygenated blood

[2 mark]

6	Are the following definitions true (T) or false (F)?		
	F	An artery is a vessel that carries oxygenated blood	
	T	An vein is a vessel that carries blood to the heart	
	T	An artery is a vessel that carries blood away from the heart	
	F	An vein is a vessel that carries deoxygenated blood	
			[2 marks]
7	Discuss he	ow the heart is adapted to it's function of pumping blood around the body	
It has thick muscular walls that contract to force the blood out at high pressures			
It h	as valves to	ensure that blood only travels in one direction	
It h	as a pacema	aker to ensure it contracts regularly	
			[2 marks]
8	Describe l	now the heartbeat is controlled	
Pac	emaker cells	s in the right atrium	
Sen	d regular in	apulses to the heart muscle tissue causing it to contract	
			[2 marks]
9	In some c	ases, the heartbeat can become irregular, how can doctors treat this?	
Plac	ce an artifici	al pacemaker under the skin above the heart	
So t	hat it can so	end a regular electric impulse down to the heart to stimulate contractions	
			[2 marks]
10	What are	the coronary arteries and why are they so important?	
Art	eries that su	apply blood (oxygen and nutrients) to the heart muscle	
The	heart musc	cle needs a constant and good supply of blood as it uses a lot of energy to con	tract regularly
			[2 marks]
			[Total 21 marks]