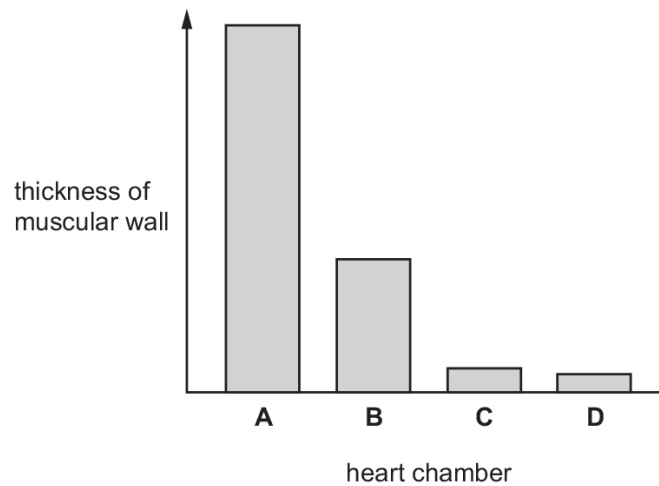


9.3. BLOOD AND LYMPHATIC VESSELS

01. 0610\_w16\_qp\_23 Q: 19

The graph shows the thickness of the muscular wall in each of the four chambers of the heart.

Which chamber is the right ventricle?



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9.3 Blood and lymphatic vessels

02. 0610\_s21\_qp\_21 Q: 19

What are the main vessels carrying blood to and from the kidney?

	to kidney	from kidney
<b>A</b>	pulmonary artery	pulmonary vein
<b>B</b>	pulmonary vein	pulmonary artery
<b>C</b>	renal artery	renal vein
<b>D</b>	renal vein	renal artery

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03. 0610\_s21\_qp\_23 Q: 19

Through which blood vessels does blood flow into the heart?

- 1 pulmonary artery
- 2 pulmonary vein
- 3 vena cava
- 4 aorta

**A** 1 and 2      **B** 1 and 4      **C** 2 and 3      **D** 2 and 4

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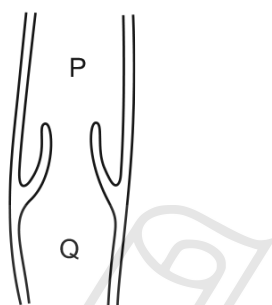
04. 0610\_w21\_qp\_22 Q: 19

What do shunt vessels connect?

- A arterioles to capillaries
- B arterioles to venules
- C capillaries to lymphatic vessels
- D capillaries to venules

05. 0610\_m20\_qp\_22 Q: 20

The diagram shows a section through a blood vessel.



Which type of blood vessel is shown, and in which direction does the blood flow?

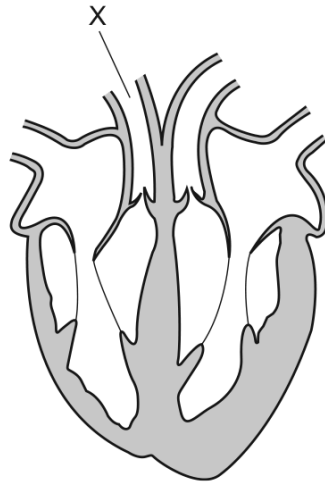
	type of vessel	direction of flow
<b>A</b>	artery	P to Q
<b>B</b>	artery	Q to P
<b>C</b>	vein	P to Q
<b>D</b>	vein	Q to P

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9.3. BLOOD AND LYMPHATIC VESSELS

06.0610\_s20\_qp\_21 Q: 18

The diagram shows a section through the heart and its blood vessels.

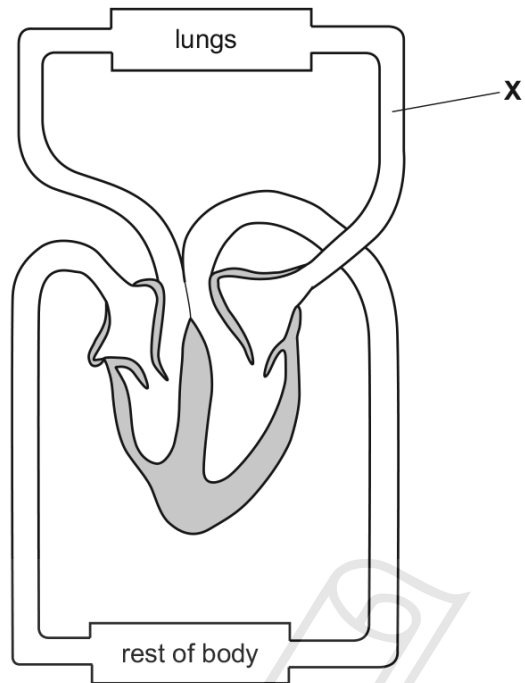


Which row gives the vessel name and the direction of blood flow in vessel X?

	vessel name	direction of blood flow
<b>A</b>	aorta	towards the lungs
<b>B</b>	pulmonary artery	towards the lungs
<b>C</b>	pulmonary artery	away from the lungs
<b>D</b>	vena cava	away from the lungs

07. 0610\_s20\_qp\_22 Q: 18

The diagram shows the human heart and main blood vessels.



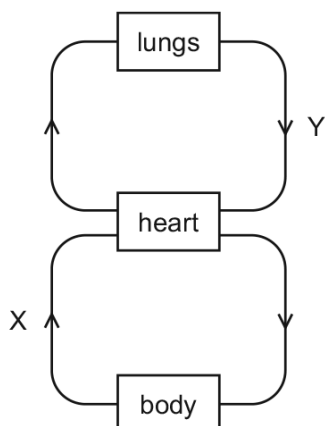
What is the blood vessel labelled X?

- A aorta
- B pulmonary artery
- C pulmonary vein
- D vena cava

9.3. BLOOD AND LYMPHATIC VESSELS

08.0610\_s20\_qp\_23 Q: 18

The diagram shows some of the blood vessels leaving and returning to the heart.



Which row is correct for blood vessels X and Y?

	name of blood vessel X	description of oxygen content of the blood in X	name of blood vessel Y	description of oxygen content of the blood in Y
<b>A</b>	aorta	deoxygenated	pulmonary artery	oxygenated
<b>B</b>	aorta	oxygenated	pulmonary vein	deoxygenated
<b>C</b>	vena cava	deoxygenated	pulmonary vein	oxygenated
<b>D</b>	vena cava	oxygenated	pulmonary artery	deoxygenated

09.0610\_w20\_qp\_21 Q: 17

The table shows some features of blood vessels.

Which row shows the features of a vein?

	direction of blood flow	size of the central hole (lumen)	thickness of wall
<b>A</b>	away from the heart	large	thick
<b>B</b>	away from the heart	small	thick
<b>C</b>	towards heart	small	thin
<b>D</b>	towards heart	large	thin

10. 0610\_w20\_qp\_21 Q: 18

Where are valves found that prevent blood from flowing in the wrong direction?

- A capillaries and arteries
- B lungs and veins
- C heart and capillaries
- D heart and veins

11. 0610\_w20\_qp\_23 Q: 18

Which row correctly identifies the blood vessels?

	largest internal space (lumen)	thickest muscular wall	transports blood towards the heart
<b>A</b>	pulmonary artery	capillary	pulmonary vein
<b>B</b>	pulmonary artery	pulmonary vein	capillary
<b>C</b>	pulmonary vein	capillary	pulmonary artery
<b>D</b>	pulmonary vein	pulmonary artery	pulmonary vein

12. 0610\_s19\_qp\_21 Q: 19

The diagram shows cross-sections through three types of blood vessel, **not** drawn to the same scale.



Which section is from a vein and which is from a capillary?

	vein	capillary
<b>A</b>	V	W
<b>B</b>	W	V
<b>C</b>	W	X
<b>D</b>	X	W

### 9.3. BLOOD AND LYMPHATIC VESSELS

13. 0610\_s18\_qp\_22 Q: 22

The composition of the blood in the renal vein is different to the composition of the blood in the renal artery.

What substance has a higher concentration in the renal vein than in the renal artery?

- A carbon dioxide
  - B glucose
  - C oxygen
  - D urea
- 

14. 0610\_m17\_qp\_22 Q: 15

Which is a function of the lymphatic system?

- A deamination of amino acids
  - B production of lipase
  - C protection from infection
  - D transport of oxygen
- 

15. 0610\_s17\_qp\_23 Q: 17

Which row shows what is carried, and in which direction, by the pulmonary vein?

	what is carried	direction
<b>A</b>	deoxygenated blood	from the heart
<b>B</b>	deoxygenated blood	to the heart
<b>C</b>	oxygenated blood	from the heart
<b>D</b>	oxygenated blood	to the heart

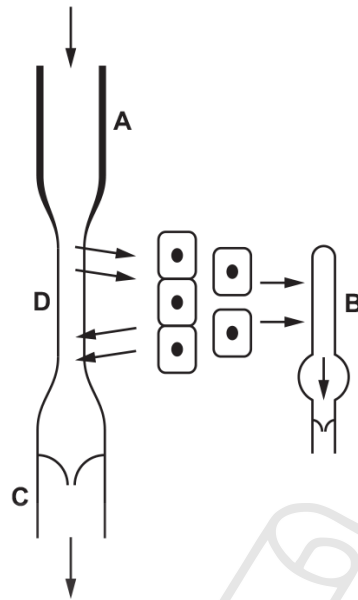
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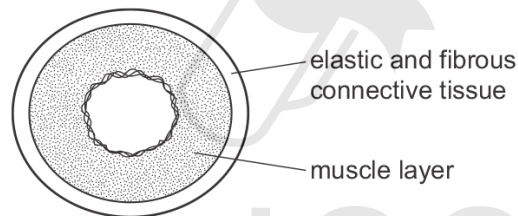
16. 0610\_w17\_qp\_21 Q: 17

The diagram shows the vessels associated with the flow of fluids to and from body cells.

Which is the lymph vessel?



The diagram shows a cross-section through a human blood vessel.



17. 0610\_w17\_qp\_21 Q: 18

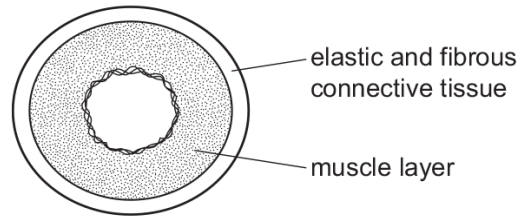
Which type of blood vessel does the diagram show?

- A an artery
- B a capillary
- C a vein
- D a ventricle

9.3. BLOOD AND LYMPHATIC VESSELS

18. 0610\_w17\_qp\_22 Q: 18

The diagram shows a cross-section through a human blood vessel.



Which type of blood vessel does the diagram show?

- A an artery
  - B a capillary
  - C a vein
  - D a ventricle
- 

19. 0610\_s16\_qp\_21 Q: 19

What is the function of lymphocytes in the blood?

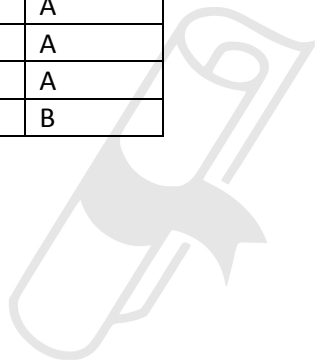
- A antibody production
  - B blood clotting
  - C phagocytosis
  - D transport of hormones
- 

20. 0610\_w16\_qp\_22 Q: 19

What is a correct function of the lymphatic system?

- A protects body from heat loss
  - B protects body from infection
  - C transports blood to lymph nodes
  - D transports urea to the kidneys
-

SN	Paper	Q. No.	Answer
01	0610_w16_qp_23	19	B
02	0610_s21_qp_21	19	C
03	0610_s21_qp_23	19	C
04	0610_w21_qp_22	19	B
05	0610_m20_qp_22	20	D
06	0610_s20_qp_21	18	B
07	0610_s20_qp_22	18	C
08	0610_s20_qp_23	18	C
09	0610_w20_qp_21	17	D
10	0610_w20_qp_21	18	D
11	0610_w20_qp_23	18	D
12	0610_s19_qp_21	19	C
13	0610_s18_qp_22	22	A
14	0610_m17_qp_22	15	C
15	0610_s17_qp_23	17	D
16	0610_w17_qp_21	17	B
17	0610_w17_qp_21	18	A
18	0610_w17_qp_22	18	A
19	0610_s16_qp_21	19	A
20	0610_w16_qp_22	19	B



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