<u>Transport in animals – 2020 IGCSE 0610</u>

Nov/2020/Paper_11/No.19

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
Α	away from the heart	large	thick
В	away from the heart	small	thick
С	towards heart	small	thin
D	towards heart	large	thin

2. Nov/2020/Paper 11/No.24

Jugh org. The amount of urea in the blood increases as it passes through organ X.

What is organ X?

- A heart
- kidney
- С liver
- **D** pancreas

3. Nov/2020/Paper 12/No.20

Some functions of blood are listed.

- antibody production
- blood clotting
- 3 oxygen transport
- phagocytosis

What are functions of white blood cells?

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

4. Nov/2020/Paper_13/No.19

In a mammal, what ensures the blood flows one-way round the circulatory system?

- A brain
- capillaries
- lungs
- **D** valves

5. Nov/2020/Paper_13/No.20

Which structure separates the right and left sides of the heart?

- A coronary artery
- B one-way valve
- C right atrium
- **D** septum

6. Nov/2020/Paper_21/No.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
Α	away from the heart	large	thick
В	away from the heart	small	thick
С	towards heart	small	thin
D	towards heart	large	thin

7. Nov/2020/Paper 21/No.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

8. Nov/2020/Paper_22/No.17

What ensures that blood flows in one direction in the human circulatory system?

- A diffusion of carbon dioxide
- **B** diffusion of oxygen
- C thick walled arteries
- **D** valves

9. Nov/2020/Paper_22/No.18

The diagrams show four components of blood.

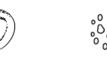
Which component produces antibodies?



В

C

D



10. Nov/2020/Paper_23/No.17

In a mammal, what ensures the blood flows one-way round the circulatory system?

- A brain
- capillaries В
- lungs
- valves

11. Nov/2020/Paper_23/No.18

A		brain			
В	}	capillaries			46
С	:	lungs			9
D)	valves	i		
Nov/2020/Paper_23/No.18 Which row correctly identifies the blood vessels?					
		largest internal space (lumen)	thickest muscular wall	transports blood towards the heart	
	Α	pulmonary artery	capillary	pulmonary vein	
	В	pulmonary artery	pulmonary vein	capillary	
	С	pulmonary vein	capillary	pulmonary artery	
	D	pulmonary vein 📐	pulmonary artery	pulmonary vein	

12. Nov/2020/Paper_33/No.5

(a) (i) Table 5.1 shows some statements about arteries, capillaries and veins.

Place ticks (\checkmark) in the boxes to show which statements are correct for arteries, capillaries and veins.

One has been done for you.

Table 5.1

statements	arteries	capillaries	veins
carry blood away from the heart	✓		
supply cells with nutrients and remove waste products			
return blood to the heart		. 6	O
have a thick wall containing muscle and elastic tissue		10	
have a thin wall containing muscle and elastic tissue		10/1	
have a very thin wall with no muscle or elastic tissue			

	(!!\	Otata and otherwise is an	Co		[5]
	(ii)	State one other way in wr	nich the structure of a vein is different f	-	. [1
b)	Оху	gen moves from the blood	into body cells.		
	Carl	bon dioxide moves from bo	ody cells into the blood.		
	(i)	State the name of the pro	cess in a cell that uses oxygen and rele	eases carbon dioxid	e. [1

Fig. 5.1 is a drawing representing the movement of molecules into and out of an animal cell.

The number of dots represent the concentrations of molecules inside and outside the cell.

The arrows show the direction of movement of the molecules.

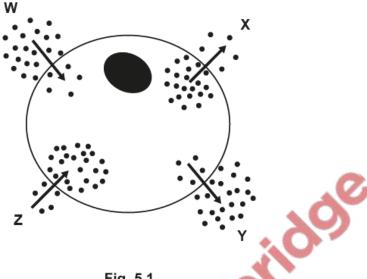


Fig. 5.1

State the letter(s) that represent the movement of: (ii) molecules by active transport molecules by diffusion

[2]

[Total: 9]