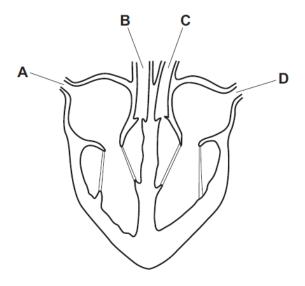
<u>Transport in animals – 2021 IGCSE 0610</u>

1. Nov/2021/Paper_11/No.19

The diagram shows a section through a mammalian heart.

Which part carries blood directly from the lungs?



2. Nov/2021/Paper_11/No.20

Which component of blood produces antibodies?

- A red blood cells
- B white blood cells
- C platelets
- **D** plasma

3. Nov/2021/Paper_12/No.19

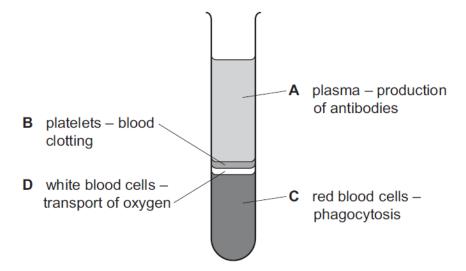
What do shunt vessels connect?

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

4. Nov/2021/Paper_12/No.20

The diagram shows the four components of blood separated into layers.

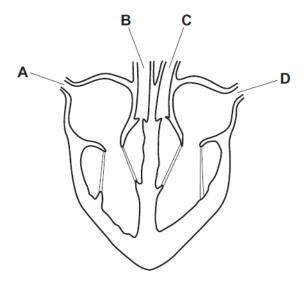
Which component is labelled with the correct function?



5. Nov/2021/Paper_13/No.19

The diagram shows a section through a mammalian heart.

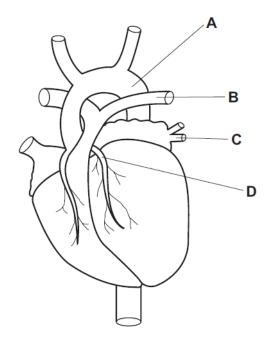
Which part carries blood directly from the lungs?



6. Nov/2021/Paper_13/No.20

The diagram shows the external structure of the human heart.

Which label identifies a coronary artery?



7. Nov/2021/Paper_22/No.18

Which component of blood produces antibodies?

- A lymphocytes
- **B** phagocytes
- C plasma
- **D** red blood cells

8. Nov/2021/Paper_22/No.19

What do shunt vessels connect?

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

9. Nov/2021/Paper_23/No.18

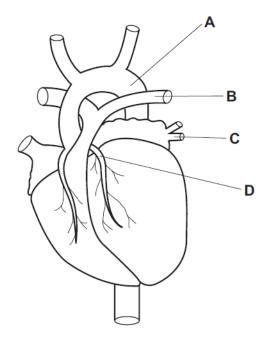
Which component of blood produces antibodies?

- A lymphocytes
- **B** phagocytes
- C plasma
- D red blood cells

10. Nov/2021/Paper_23/No.19

The diagram shows the external structure of the human heart.

Which label identifies a coronary artery?



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11. Nov/2021/Paper_31/No.5

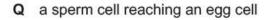
(a) Complete the sentences using the words or phrases from the list.

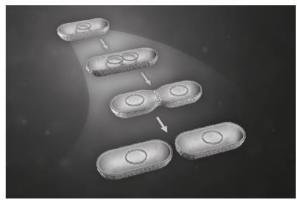
Each word or phrase may be used once, more than once or not at all.

different fron	n divide	embryo	gamete	fuse				
fetus	identical to	meiosis	mitosis	zygote				
In sexual reproduction, each parent organism produces a sex cell called a								
The nuclei of two sex cells to form a								
in a process called fertilisation.								
The offspring are	e genetically		each other a	nd their parents.	[5]			

(b) Fig. 5.1 shows four examples of reproduction in living organisms.







R a single bacterial cell dividing



S a strawberry plant with offspring connected by a runner



T an insect pollinating a flower

Fig. 5.1

State the **two** letters in Fig. 5.1 that identify examples of asexual reproduction.

..... and

[2]

(c) Fig. 5.2 is a diagram showing all of the chromosome pairs in a cell from a human male. The twenty-third pair of chromosomes are the sex chromosomes.

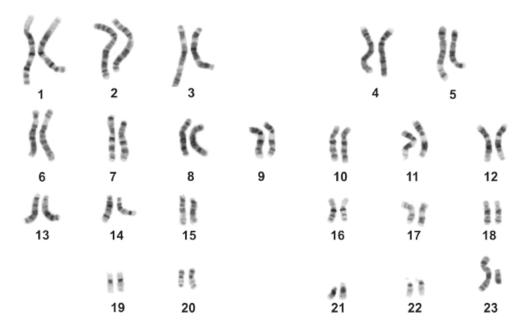


Fig. 5.2

	Describe how the chromosomes in a human female differ from those shown in Fig. 5.2.
	[1]
(d)	Describe how insect-pollinated flowers are adapted for pollination.
	[4]

[Total: 12]

12. Nov/2021/Paper_41/No.5

The circulatory system is comprised of the heart, blood vessels and the blood.

(a) Explain how the structures of the heart ensure that blood flows in one direction.

Include the names of these structures in your answer.	
	[4]

(b) Fig. 5.1 shows a diagram of some blood vessels associated with the skin.

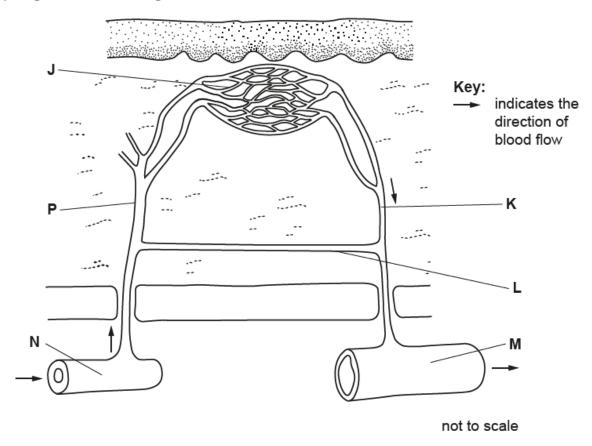


Fig. 5.1

Table 5.1 shows the functions of some blood vessels.

Complete Table 5.1 by:

- naming the type of blood vessel
- stating the letter of the type of blood vessel from Fig. 5.1.

Table 5.1

function		type of blood vessel	letter on Fig. 5.1		
regulates blood flow by constricting and dilating					
collects blood from a network of the narrowest blood vessels					
withstands the highest blood pressure					
allows the transfer of substances to and from tissue fluid					
transports blood towards the heart					
redirects blood flow deeper under the surface of the skin					
			[6]		
(c) State the name of the blood ves		essels that deliver blood to the:			
	kidneys				
	heart muscle				
			[2]		
(d)	d) Describe how blockages in the vessels that deliver blood to the heart muscle can be treated				

[4]
[-]
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