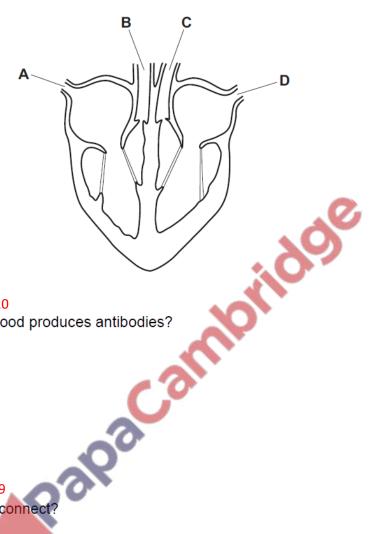
<u>Transport in animals – 2021 IGCSE 0610</u>

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?

- red blood cells Α
- В white blood cells
- С platelets
- D plasma

3. Nov/2021/Paper_12/No.19

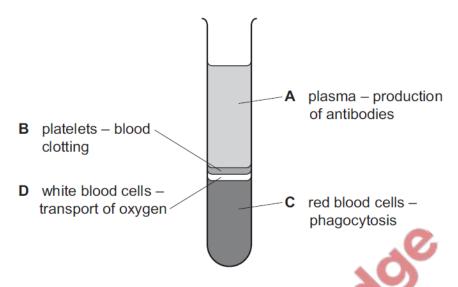
What do shunt vessels connect?

- arterioles to capillaries Α
- arterioles to venules В
- capillaries to lymphatic vessels С
- capillaries to venules

4. Nov/2021/Paper_12/No.20

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

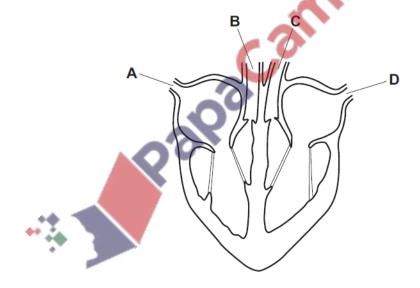
Which component is labelled with the correct function?



5. Nov/2021/Paper_13/No.19

The diagram shows a section through a mammalian heart.

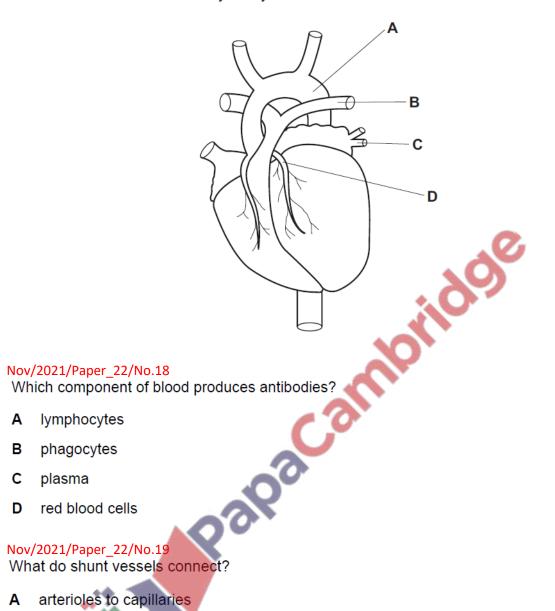
Which part carries blood directly from the lungs?



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

8. Nov/2021/Paper_22/No.19

- arterioles to capillaries
- arterioles to venules В
- С capillaries to lymphatic vessels
- capillaries to venules

9. Nov/2021/Paper_23/No.18

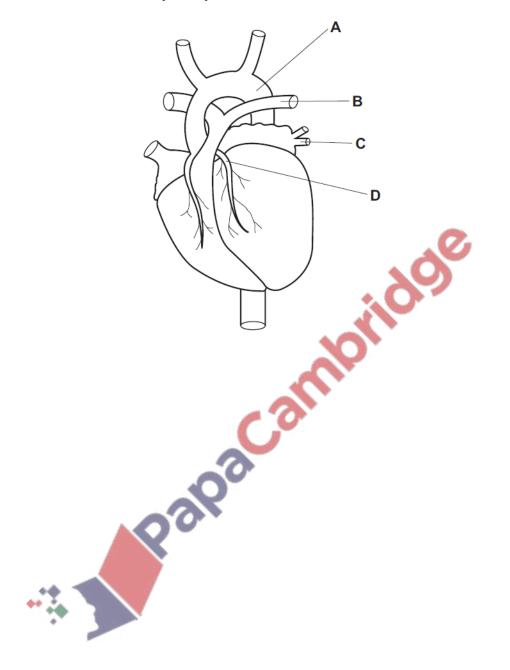
Which component of blood produces antibodies?

- Α lymphocytes
- В phagocytes
- С 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?



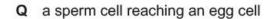
11. Nov/2021/Paper_31/No.5

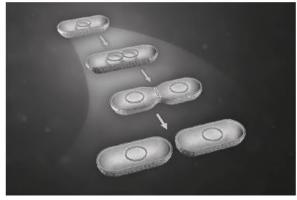
(a) Complete the sentences using the words or phrases from the list.

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

different from divide fuse embryo gamete 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. Ralpacantin The offspring are geneticallyeach other and 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]

		?)(5			
	K	SERVICE SERVICE	((3)	44	?	X	
	6	7	8	9	10	11	12	
	JL 13	14	15		16	17	18	
		18	8 8		21	0	51	
		19	20		21	9	23	
				Fig. 5.2				
	Describe how the chromosomes in a human female differ from those shown in Fig. 5.2.							
				10	•			
			_2					
(d)	Describe how in	nsect-pollin	ated flower	s are adap	ted for poll	ination.		
			10					
								[4]
								[Total: 12]

(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.

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.	
	[A]

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

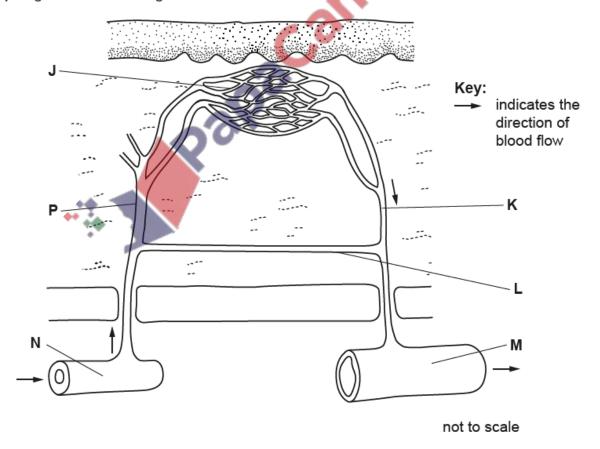


Table 5.1 shows the functions of some blood vessels.

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	dide				
redirects blood flow deeper under the surface of the skin					
(c) State the name of the blood ve kidneysheart muscle	ssels that deliver blood to the:	[6]			
(d) Describe how blockages in the vessels that deliver blood to the heart muscle can b					

