

Organisation of the organism – 2023 June IGCSE Biology 0610

1. June/2023/Paper_0610/11/No.4

Which row shows structures that are present in both root hair cells and palisade mesophyll cells?

	cell wall	chloroplasts	cytoplasm	vacuole
A	✓	✓	✓	x
B	x	✓	✓	✓
C	✓	x	✓	✓
D	✓	✓	x	✓

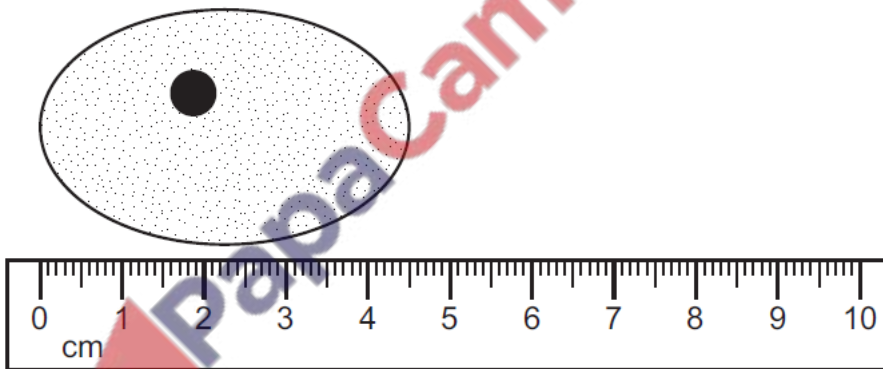
key

✓ = present

x = absent

2. June/2023/Paper_0610/11/No.5

The diagram shows a cell at $\times 1500$ magnification.



What is the actual size of the cell?

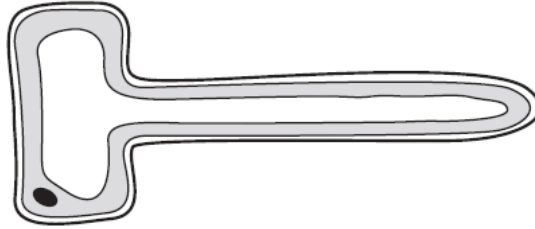
A 0.003 mm

B 0.03 mm

C 33 mm

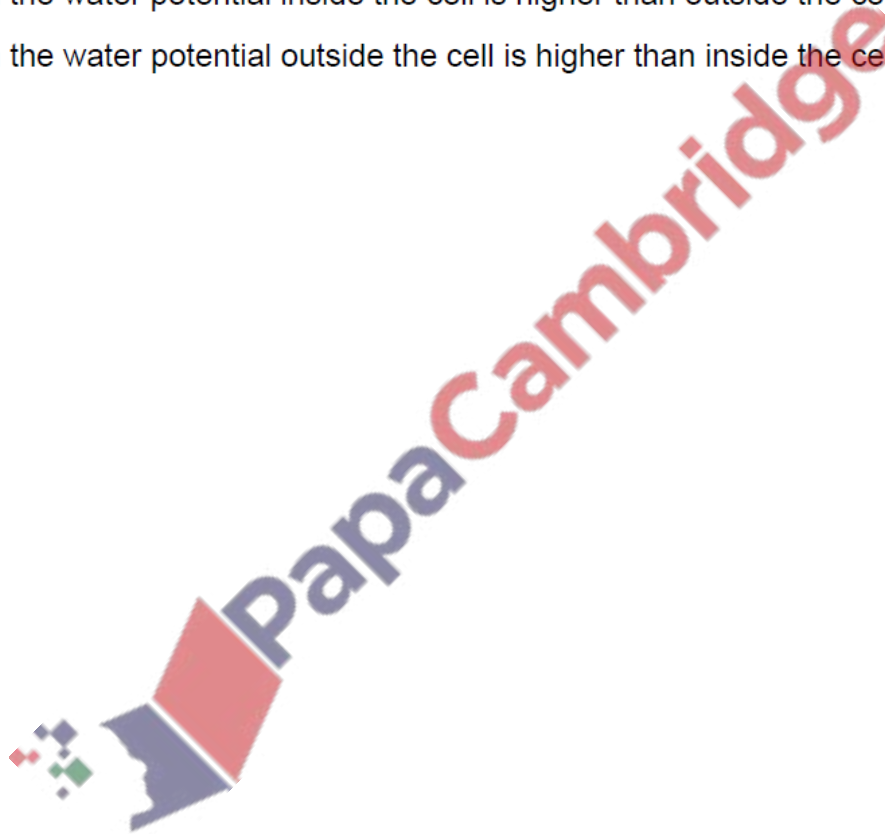
D 333 mm

3. June/2023/Paper_0610/22/No.5
The diagram shows a root hair cell.

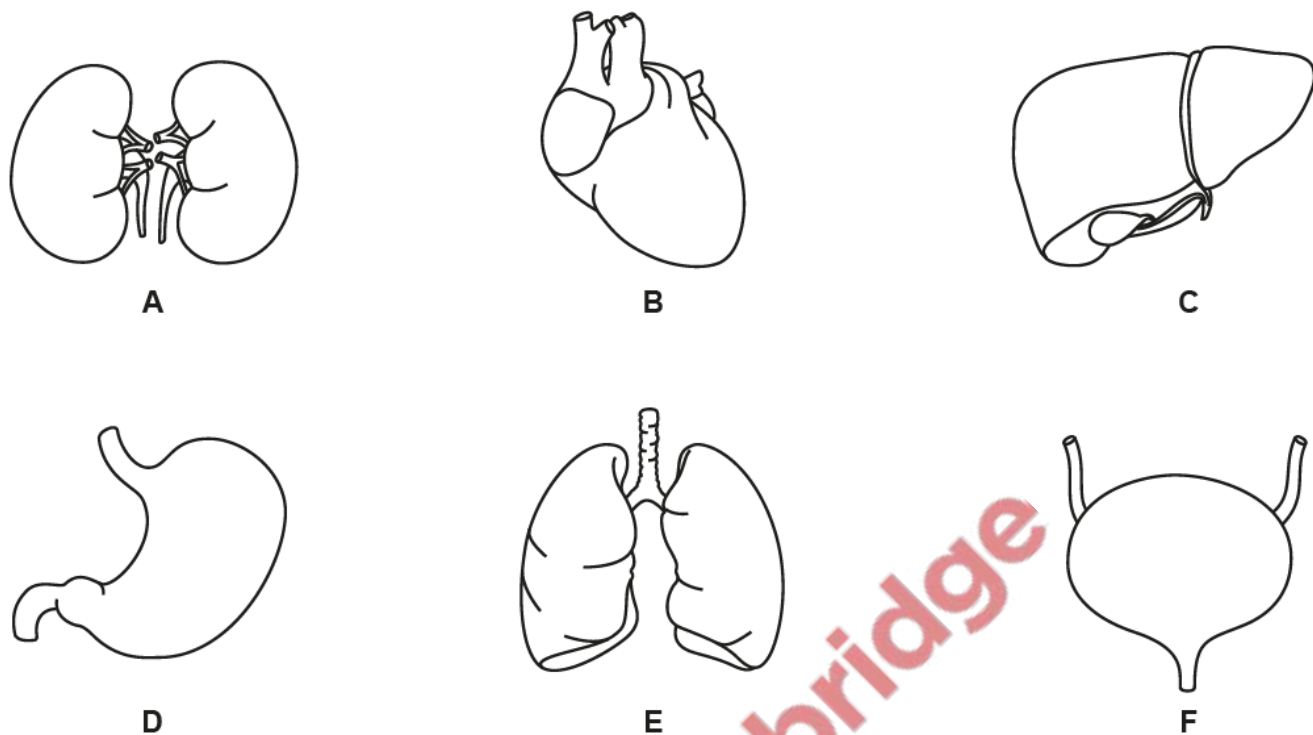


When does water enter the cell by osmosis?

- A when the concentration of solutes outside the cell is greater than inside the cell
- B when the concentration of solutes inside and outside the cell are equal
- C when the water potential inside the cell is higher than outside the cell
- D when the water potential outside the cell is higher than inside the cell



(a) Fig. 7.1 is a diagram showing some of the organs in the human body.



not to scale

Fig. 7.1

Table 7.1 shows the names of some of the organs in Fig. 7.1, the identifying letters of some of these organs and their functions.

Complete Table 7.1.



Table 7.1

name	letter in Fig. 7.1	function
		excretes carbon dioxide from the body
heart	B	
	F	stores urine
		excretes urea, excess water and ions

[6]

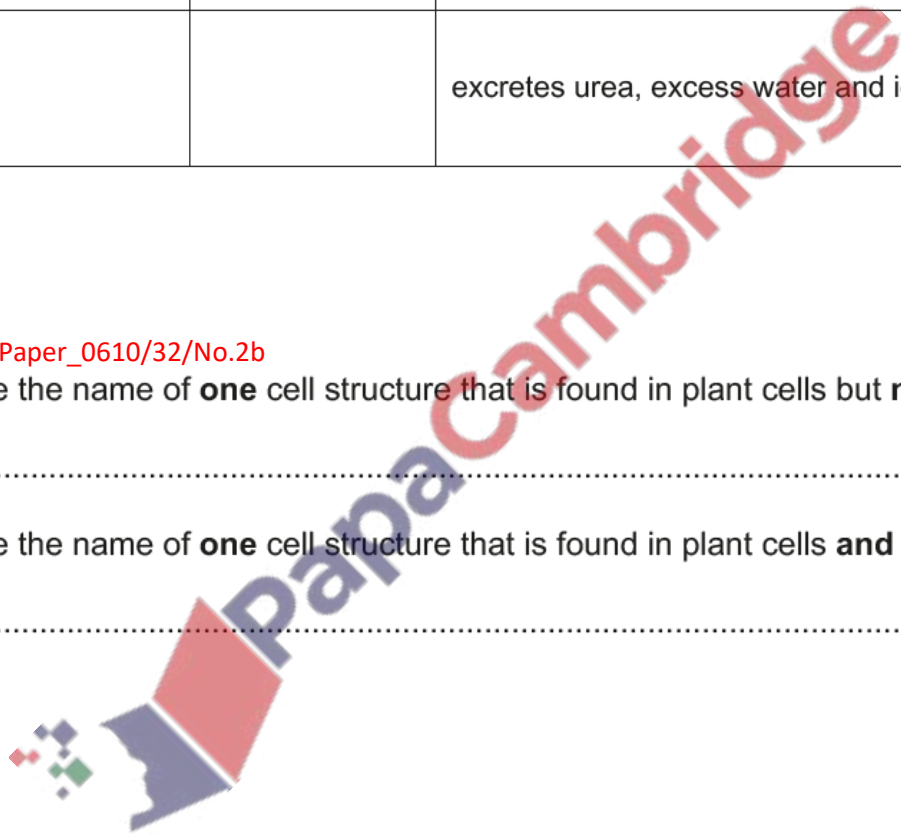
5. June/2023/Paper_0610/32/No.2b

(i) State the name of **one** cell structure that is found in plant cells but **not** in animal cells.

..... [1]

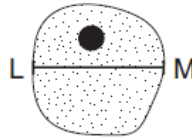
(ii) State the name of **one** cell structure that is found in plant cells **and** in animal cells.

..... [1]



6. March/2023/Paper_0610/12/No.5

The diagram shows a magnified image of a cell. The magnification is $\times 360$. Line LM represents the width of the image of the cell. Line LM is 18 mm long in this diagram.

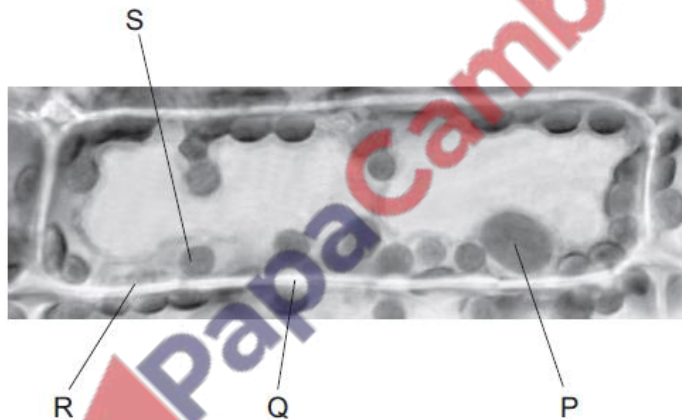


What is the actual width of the cell?

- A 0.005 mm B 0.05 mm C 0.5 mm D 5.0 mm

7. March/2023/Paper_0610/22/No.3

The photomicrograph shows a cell from a type of aquatic plant.



Which labelled parts indicate that this is a plant cell?

- A P and R B P and S C Q and R D Q and S