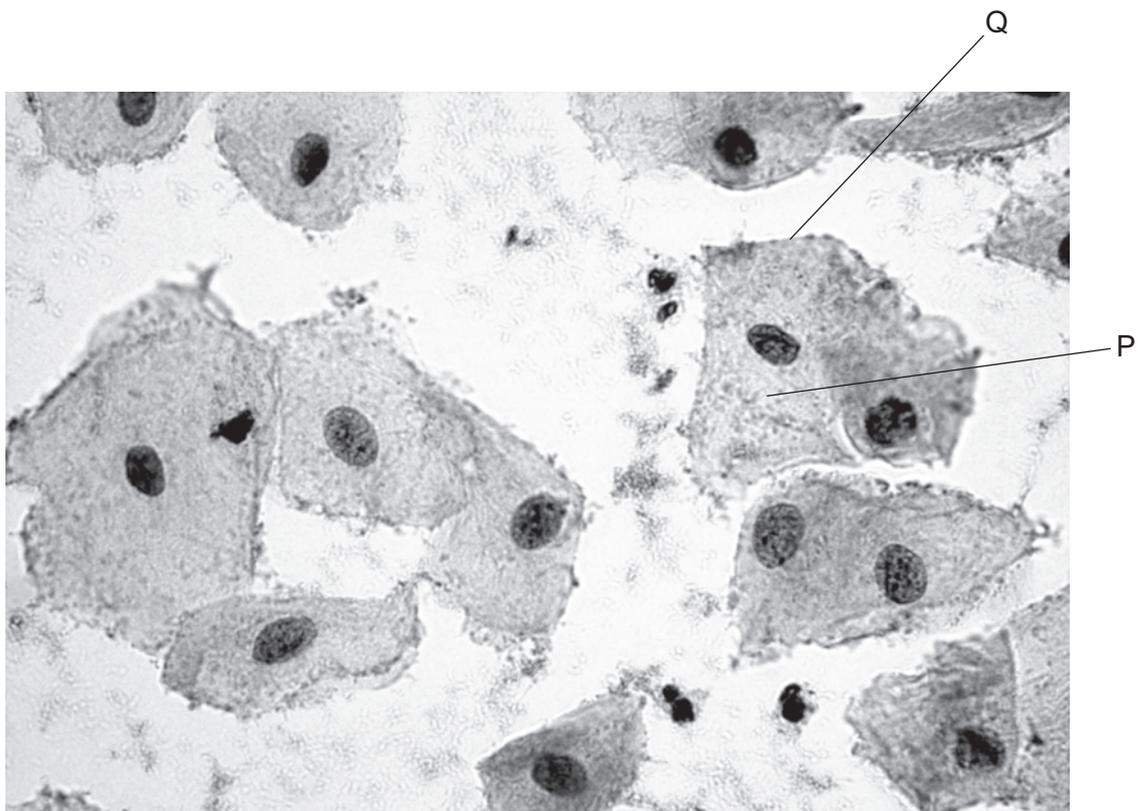


1 The photograph shows some human cells under the microscope.



What are structures P and Q?

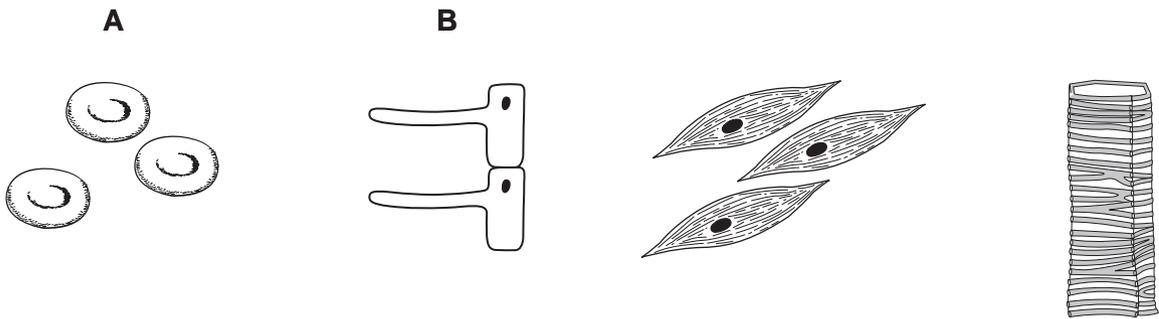
	P	Q
A	cytoplasm	cell membrane
B	cytoplasm	cell wall
C	nucleus	cell membrane
D	nucleus	cell wall

2 Which cell moves dust particles out of the body?

- A ciliated
- B muscle
- C red blood
- D xylem

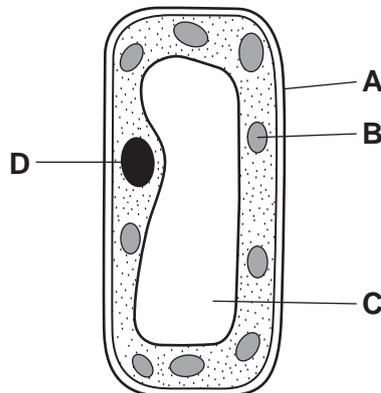
3 The diagrams show four types of tissues found in living organisms.

Which tissue is involved in contraction?



4 The diagram shows a palisade cell from a leaf.

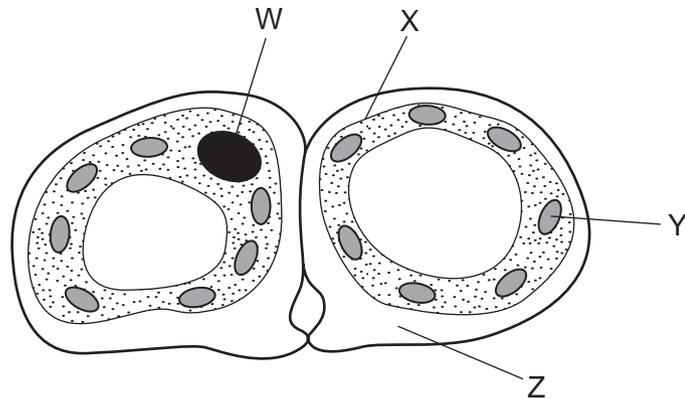
Which labelled structure produces oxygen?



5 Which structure contains genes?

- A the cell membrane of an animal cell
- B the cytoplasm of an animal cell
- C the nucleus of a plant cell
- D the vacuole of a plant cell

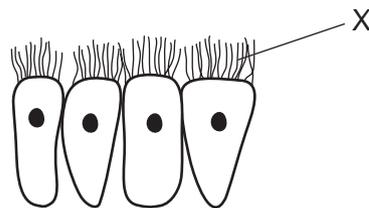
6 The diagram shows a cross section through two guard cells of a leaf.



Which labelled structures would also be found in an animal cell?

- A** W and X **B** X and Y **C** Y and Z **D** Z and W

7 The diagram shows some cells from the lining of the trachea (windpipe) in the respiratory tract.



What is the function of the structures labelled X?

- A** absorbing oxygen
B killing micro-organisms
C moving mucus
D trapping bacteria

8 Which structures contain a cell nucleus?

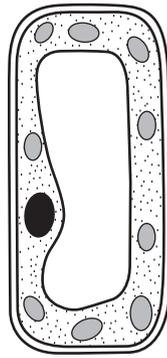
	red blood cell	root hair cell	xylem vessel
A	✓	✓	✓
B	✓	x	x
C	x	✓	x
D	x	x	✓

key

✓ = contains nucleus

x = no nucleus

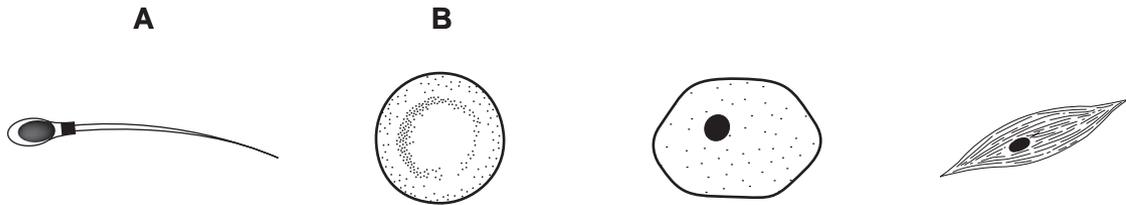
9 The diagram shows a cell.



What type of cell is shown?

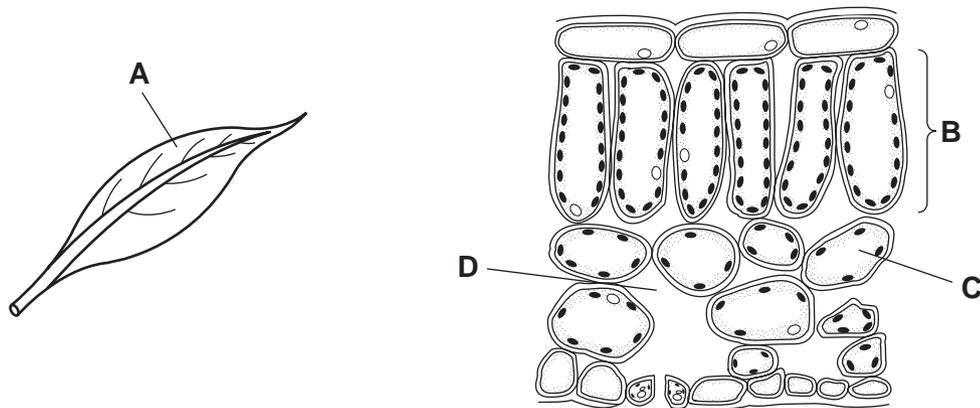
- A epidermis
- B muscle
- C nerve
- D palisade

10 Which diagram shows a cell from the liver?



11 The diagrams show a leaf and a section through part of the same leaf.

Which label on the diagrams indicates an organ?



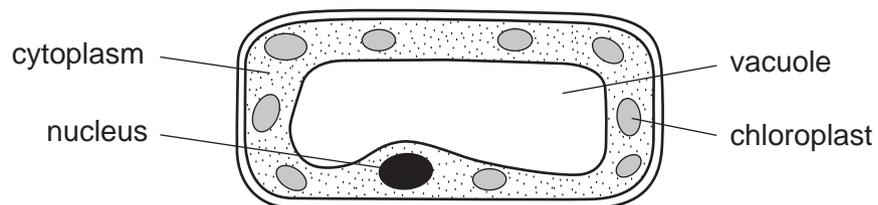
12 Which two features are found in both a root hair cell and a red blood cell?

- A cell membrane and cytoplasm
- B cell membrane and vacuole
- C nucleus and chloroplast
- D nucleus and cytoplasm

13 What controls the passage of substances into and out of plant cells?

- A the cell surface membrane
- B the cellulose cell wall
- C the chloroplasts
- D the vacuole

14 The diagram shows a type of plant cell.



In which tissue is this cell found?

- A leaf epidermis
- B palisade mesophyll
- C root epidermis
- D xylem

15 Which structure is found **only** in plant cells?

- A cell membrane
- B chloroplast
- C cytoplasm
- D nucleus

16 The table shows features that may be found in cells.

Which is true for a liver cell?

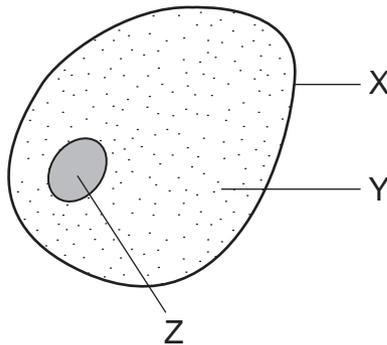
	large central vacuole	chloroplasts	cellulose cell wall
A	✓	✓	✓
B	✓	✓	x
C	x	x	✓
D	x	x	x

key

✓ = found

x = not found

17 The diagram shows a liver cell.



Which structures are also found in a root hair cell of a plant?

	X		Z
A	✓	✓	✓
B	✓	x	x
C	x	✓	x
D	x	x	✓

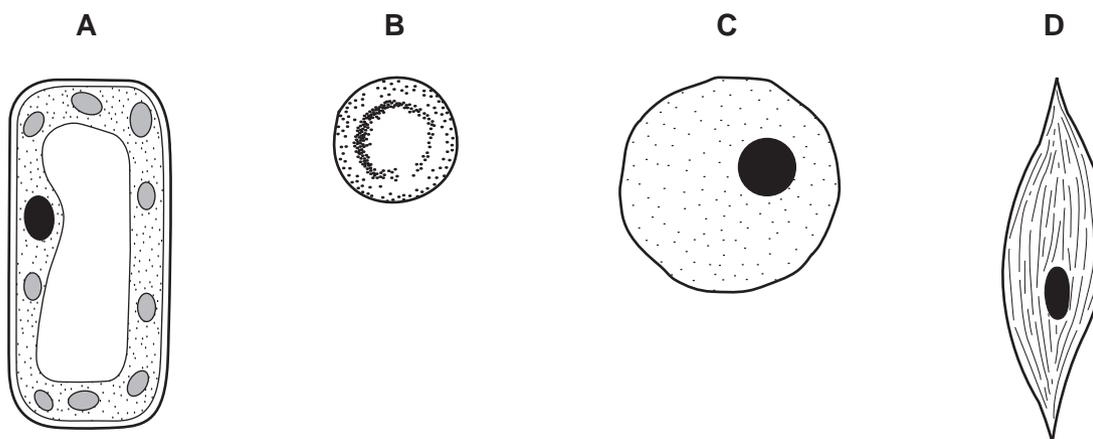
key

✓ = present in root hair cell

x = not present in root hair cell

18 The diagram shows four cells.

Which cell performs the function of contraction?



19 Which of these structures is a single tissue?

- A chloroplast
- B phloem
- C urethra
- D uterus

20 Which structures are found in a human sperm cell?

	cell membrane	cell wall	haploid nucleus
A	✓	x	x
B	✓	x	✓
C	✓	✓	✓
D	x	✓	✓

key

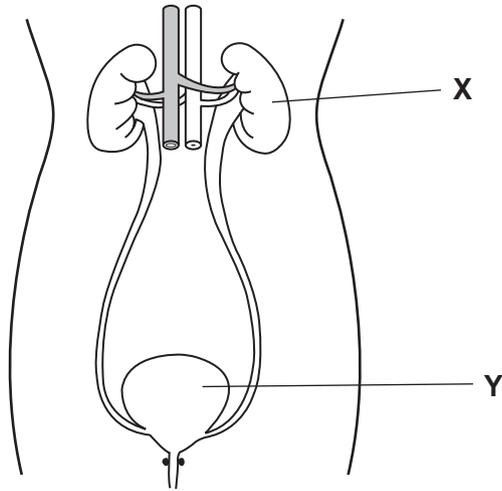
✓ = present

x = not present

21 What is cytoplasm?

- A a fluid-filled space
- B a jelly-like substance
- C a surrounding wall
- D a tiny green disc

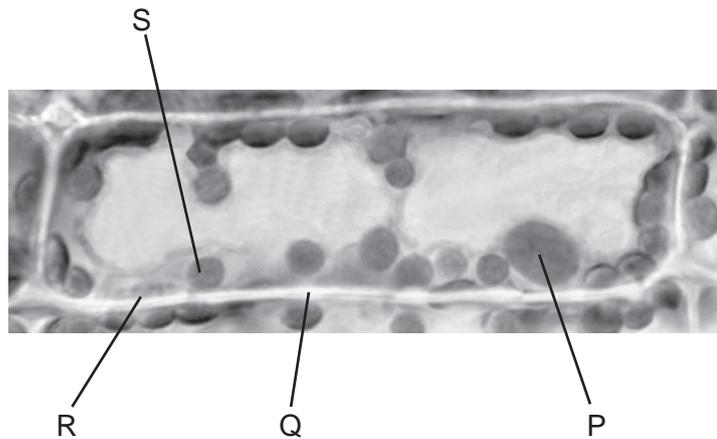
22 The diagram shows some of the structures found in the human abdomen.



What type of structures are **X** and **Y**?

	X	Y
A	organ	organ
B	organ	organ system
C	organ system	tissue
D	tissue	organsystem

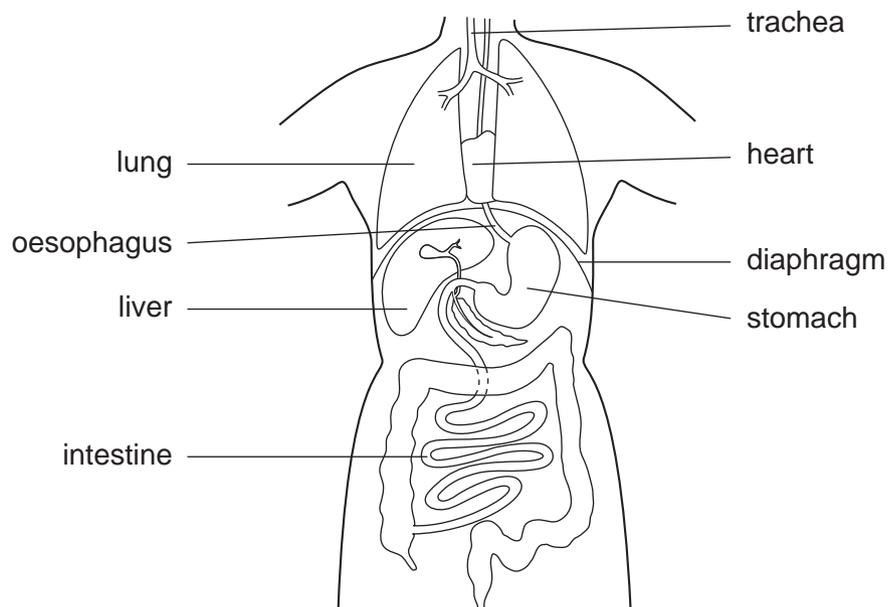
23 The photomicrograph shows a cell from a type of pondweed.



Which parts labelled on the diagram indicate that this is a plant cell?

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

- 24 The diagram shows some of the main organs in the human body.



Which group of organs belongs to the same organ system?

- A** diaphragm, oesophagus, trachea
 - B** heart, liver, lungs
 - C** heart, stomach, trachea
 - D** oesophagus, intestine, stomach
- 25 Why is the epidermis of a leaf an example of a tissue?
- A** The cells all have a similar structure and function.
 - B** The cells allow light to pass through.
 - C** The cells allow water to enter them by osmosis.
 - D** The cells are covered by a waxy cuticle.