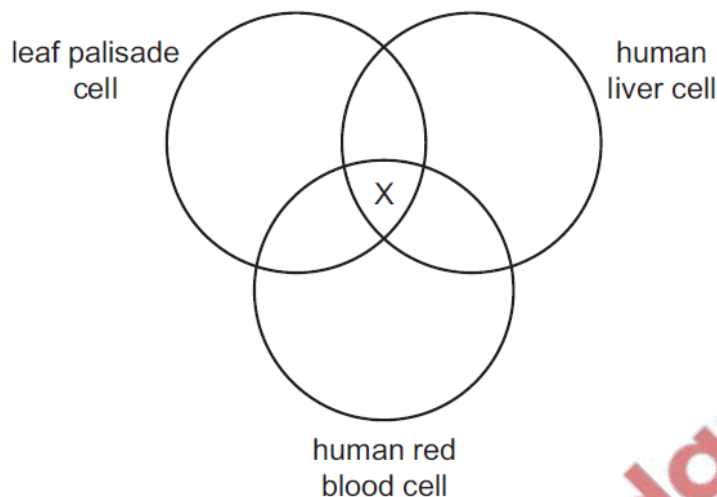


1. Nov/2021/Paper_11/No.1

The diagram represents the cell structures of a human liver cell, a leaf palisade cell and a human red blood cell.



Which cell structure is X?

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

2. Nov/2021/Paper_11/No.26

What is a feature of all bacteria?

- A They are parasites.
- B They have a nucleus.
- C They are made of hyphae.
- D They are single-celled organisms.

3. Nov/2021/Paper_12/No.1

Four features found in cells are listed.

- 1 cell membrane
- 2 chloroplasts
- 3 nucleus
- 4 starch grains

Which two features are found in animal cells?

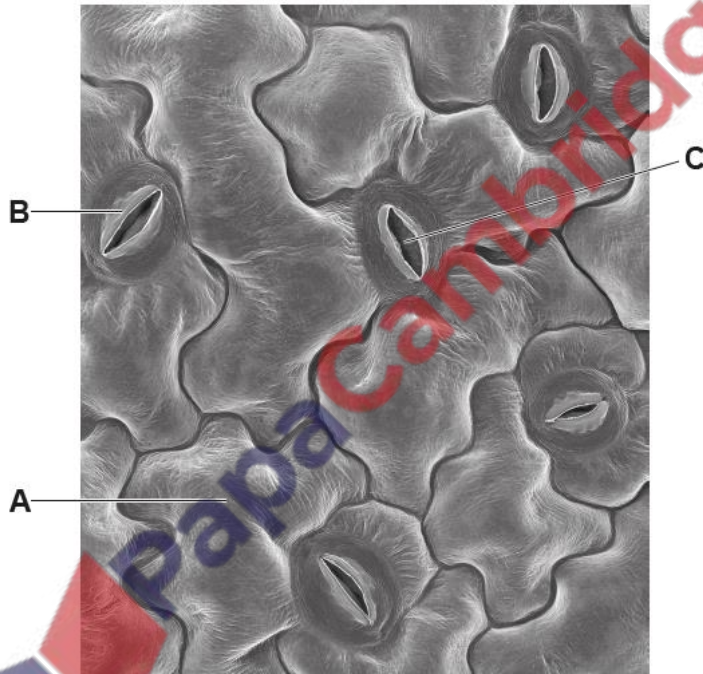
- A 1 and 2
- B 1 and 3
- C 2 and 4
- D 3 and 4

4. Nov/2021/Paper_12/No.26
What is a feature of all bacteria?

- A They are parasites.
- B They have a nucleus.
- C They are made of hyphae.
- D They are single-celled organisms.

5. Nov/2021/Paper_22/No.1

The diagram shows a photomicrograph of the lower surface of a leaf.



(a) (i) Name each of the parts labelled A to C.

cell A

cell B

pore C

[3]

(ii) In an area affected by air pollution, the surface of the leaf becomes covered with particles. These particles reduce the amount of light entering the leaf and may block all pores of the type labelled **C**.

Explain how this will affect the production of starch by the plant.

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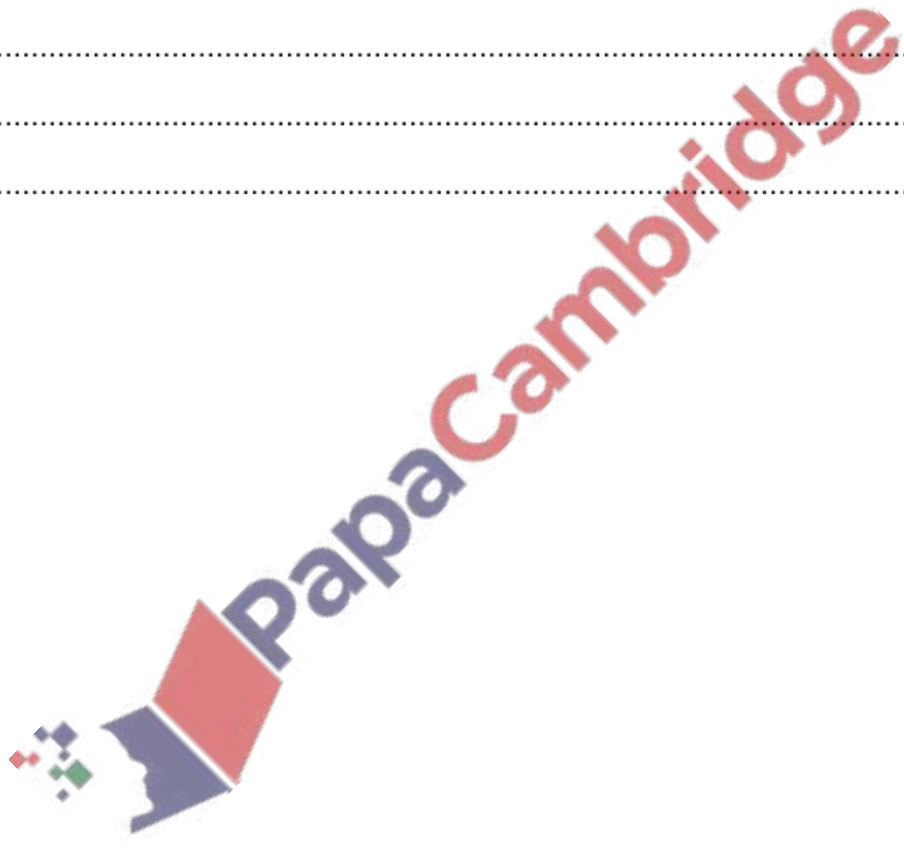
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..... [4]



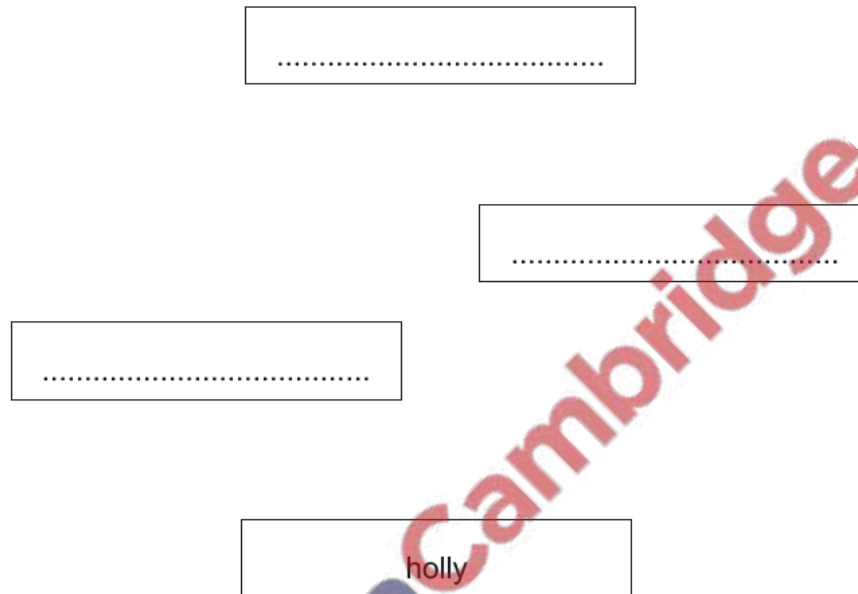
(b) A species of caterpillar, the holly looper, feeds on the leaves of the holly plant.

Holly plants produce red berries that are eaten by a species of bird, the song thrush.

Song thrushes also eat caterpillars and are eaten by hawks.

(i) Use the information above to:

- Complete the food web below by writing the name of **one species** in each box.
- Draw arrows between the boxes to show the direction of energy flow between organisms.



[2]

(ii) State, for the food web above, the number of:

species that are producers

species that are consumers

trophic levels.

[3]

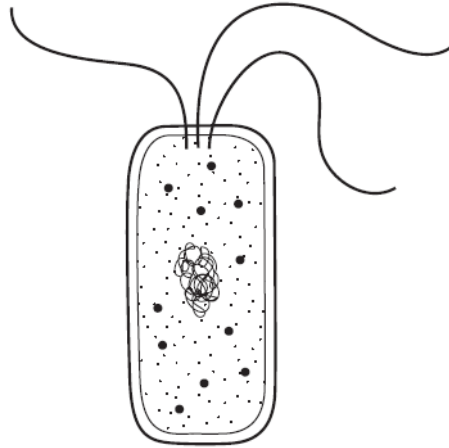
[Total: 12]

6. Jun/2021/Paper_11/No.1

Which structures are present in plant cells but **not** in animal cells?

- A cell membrane, cytoplasm, chloroplasts
- B cell wall, chloroplasts, sap vacuole
- C cell wall, cell membrane, cytoplasm
- D cytoplasm, nucleus, chloroplasts

The diagram shows the structure of a bacterium.



In what way does this differ from a cell of a fungus?

- A The bacterium has a cell membrane.
- B The bacterium has a cell wall.
- C The bacterium has cytoplasm.
- D The bacterium has no true nucleus.

