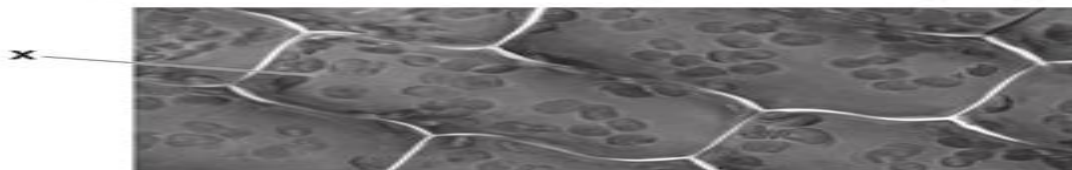


13 The picture shows plant cells as they are seen using a light microscope.



- (a) The actual length of plant cell X is $75\mu\text{m}$.

You can use this fact to calculate the magnification of the image.

Explain how.

[2]

- (b) The same cells can be observed using an electron microscope.

Magnification of the cells can be increased using an electron microscope.

Explain how and why the image may also look different.

[3]

- 14 (c) A student investigates different conditions that affect photosynthesis.

He sets up four different sets of apparatus, A, B, C and D.



The plants used are all of a similar age and size. Each plant is left under cover at room temperature.

After three days one leaf from each plant is tested for the presence of starch.

- (i) Describe all the stages required to test the leaves for the presence of starch.

[3]

- (ii) What are the expected results of the starch test on each plant?

Write down reasons for your answers.

[3]

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