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817 questions



Questions

Ultrastructure | Cells

10

1 Plant cell structure

7 marks

Enzymes

11

1 Effect of temp on an enzyme

8 marks

Variation

11

1 Meiosis

8 marks

DNA

11

1 DNA structure and replication

8 marks

Diversity | Classification

10

New Document

New



0 marks
0 minutes



question id: QSPS.1.01

Question

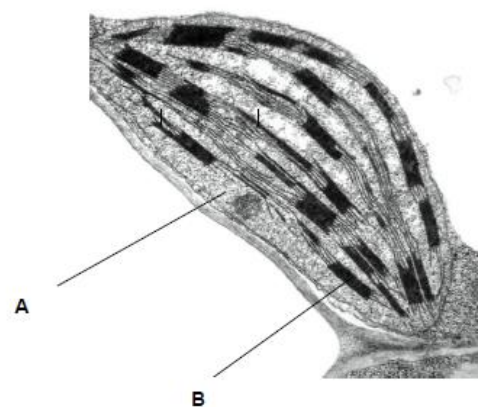
Mark Scheme

Examiners' Reports

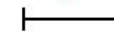
Notes

Resources

The figure below shows a photograph of a chloroplast taken with an electron microscope.



1 μm



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753 Name the parts of the chloroplast labelled A and B.



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Question

Mark Scheme

Examiner's Remarks

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- (a) 1. How to break open cells and remove debris;
2. Solution is cold / isotonic / buffered;
3. Second pellet is chloroplast;

3

- (b) 1. **A** stroma;
2. **B** granum;
Accept thylakoid

2

- (c) $\left(\frac{\text{length of chloroplast}}{\text{length of bar}}\right) \mu\text{m};$

1

- (d) **Two** of the following for **one** mark;

Mitochondrion / ribosome / endoplasmic reticulum / lysosome / cell-surface membrane

1 max

[7]



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Ultrastructure | Cells 101 Plant cell structure 7 marksEnzymes 111 Effect of temp on an enzyme 8 marksVariation 111 Meiosis 8 marksDNA 111 DNA structure and replication 8 marksDiversity | Classification 10

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0 marks
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Question

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AS Biology Specimen paper 1 Question 1 part a)

STUDENT RESPONSE 2

Homogenise leaf tissue in ice cold (reduce action of enzyme), isotonic, (prevent net movement of water into or out of organelles by osmosis) and buffered,/stop PH changes that could (illegible) solution. Then filter solution to remove any large pieces of tissue not broken up by homogeniser producing suspended organelles including chloroplasts, such as nucleus, forced to bottom into pellet centrifuge at faster speed till chloroplasts forced into pellet than remove pellet

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