

OCR A-level Biology

Revision sheets

PAGE 1
ROOT TIP EXAMINATION

AIMS/INTRODUCTION
To examine the structure of the root tip.

THEORY
The root tip is the site of cell division. The cells are arranged in a meristem, where they divide and then differentiate into the various tissues of the root.

EXPERIMENTAL PROCEDURE
1. Cut a thin slice of the root tip (approx. 1mm thick) using a razor blade.
2. Stain the root tip with toluidine blue to make the cells more visible.
3. Mount the root tip on a slide with a drop of water.
4. Cover with a cover slip.
5. Examine the root tip under a light microscope.

RESULTS
The root tip shows a clear meristem at the base, where the cells are small and densely packed. The cells are arranged in a regular pattern, and the meristem is the site of active cell division.

CONCLUSION
The root tip is the site of cell division, and the meristem is the region where the cells are actively dividing.

PAGE 2
PHOTOMICROGRAPHY

AIMS/INTRODUCTION
To use a light microscope to examine the structure of the root tip.

THEORY
A light microscope is used to examine the structure of the root tip. The light microscope uses visible light to illuminate the specimen, and the objective and eyepiece lenses are used to magnify the image.

EXPERIMENTAL PROCEDURE
1. Prepare a slide of the root tip (see page 1).
2. Place the slide on the stage of the light microscope.
3. Focus the microscope using the coarse and fine adjustment knobs.
4. Observe the root tip under the microscope.

RESULTS
The photomicrograph shows the structure of the root tip. The meristem is visible at the base, and the cells are arranged in a regular pattern. The cells are small and densely packed.

CONCLUSION
The photomicrograph shows the structure of the root tip, and the meristem is the region where the cells are actively dividing.

PAGE 3
EXPERIMENTAL PLANNING TO DETERMINE MICROBIAL GROWTH

AIMS/INTRODUCTION
To determine the growth of microorganisms using a spectrophotometer.

THEORY
A spectrophotometer is used to measure the optical density (OD) of a microbial suspension. The OD is a measure of the amount of light that is absorbed by the suspension, and it is proportional to the concentration of the microorganisms.

EXPERIMENTAL PROCEDURE
1. Prepare a series of dilutions of the microbial suspension.
2. Measure the OD of each dilution using a spectrophotometer.
3. Plot the OD against the dilution factor to determine the growth of the microorganisms.

RESULTS
The graph shows the OD against the dilution factor. The OD decreases as the dilution factor increases, indicating that the concentration of the microorganisms is decreasing.

CONCLUSION
The graph shows the growth of the microorganisms, and the OD is a measure of the concentration of the microorganisms.

Required practicals / PAGs

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