

Root Modifications

Experiment 4 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify common root modifications

Principle

Roots may be modified for storage, support or specialised gas exchange. Identifying root origin requires structural evidence.

Requirements

- Instructor-provided labelled diagrams, traces or data for this activity.
- Calculator, graph paper or spreadsheet, and the activity record.

Procedure

1. Prepare

Identify the supplied material, teaching objective and observation format.

2. Observe

Compare storage roots, prop roots, stilt roots and breathing roots on models; state the observed structure and function.

3. Record and explain

Draw or tabulate the observed features. Explain a conclusion supported by those observations and one limitation.

Remedial Biology

Observations and Record

Record item	Entry
Activity / material identifier	_____
Measurement or visible feature	_____
Comparison / calculated outcome	_____
Interpretation and limitation	_____

Result

The recorded finding is ____; the supporting observation or calculation is _____. The main limitation is _____.

Precautions

- Use the supplied teaching material; distinguish a measured observation from an assumed value.
- Keep units, axes, labels and measurement conditions consistent.
- Record limitations and seek instructor review before applying a conclusion to a live case.

Viva Questions and Answers**1. What is the main endpoint?**

Identify common root modifications

2. Does one observed result prove a general conclusion?

No. Controls, repeatability and the limitations of the method must be considered.

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