

INTRODUCTION TO PLANT DEVELOPMENT

Development

- is the progression from earlier to later stages in maturation. It is the process whereby tissues, organs, and whole plants are produced.

-It involves: growth, morphogenesis (the acquisition of form and structure), and differentiation.

Growth

-Growth refers to an irreversible increase in mass.

Differentiation

-The process in which the cells of the apical meristems mature to perform specific functions.

Morphogenesis

-Morphogenesis is the acquisition of form, how a plant or organ acquires its distinctive shape or form.

Plant development is highly plastic

Plasticity

- is the ability to change form or shape in response to a change in environment; no genetic change is involved.

Heterophylly

-the phenomenon where a plant species produces leaves of different shapes or forms on the same plant, depending on the environmental conditions.

- is thought to be an adaptation that allows plants to optimize their photosynthesis and water-use efficiency in different environmental conditions, thus increasing their fitness and survival.



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