

PLANT GROWTH AND DEVELOPMENT

DEVELOPMENT

DEVELOPMENT:

- Development is a term that includes all changes that an organism goes through during its life cycle from germination of the seed to senescence. Diagrammatic representation of the sequence of processes which constitute the development of a cell of a higher plant is given in Diagram. It is also applicable to tissues / organs. Increase in quantity & quality is called development.

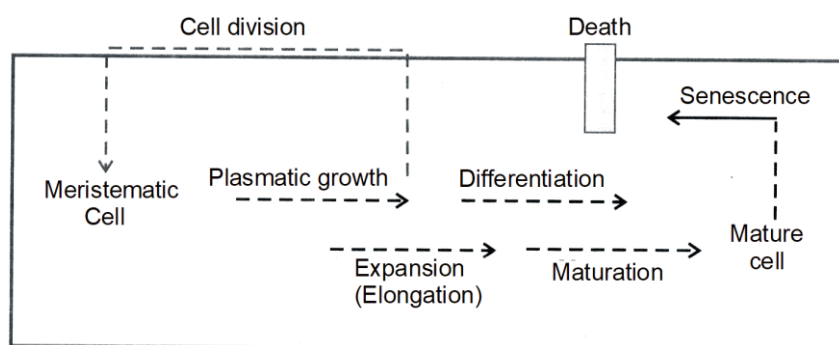


Fig : Sequence of the developmental process in a plant cell

- Plasticity:-** Plants follow different pathways in response to environment or phases of life to form different kinds of structures. This ability is called Plasticity (NEET-2021). The phenomenon of heterophylly is also an example of plasticity.

TYPES OF HETEROPHYLLY

Developmental heterophylly	Environmental heterophylly
The leaves of the juvenile plant are different in shapes from those in mature plants.	On the other hand, difference in shapes of leaves produced in air and those produced in

e.g., Cotton, Coriander and Larkspur .	water in some plants also represent the heterophyllous development due to environment e.g., Buttercup(Ranunculus)
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