

# Photoperiodic Induction:

The inductive response varies with the plant species.

- Some fls require a correct photoperiod till floral primordia are formed.
- Others may require only a single correct photoperiod and will form floral primordia if the conditions are unfavourable after one correct photoperiod.
- Xanthium is an example of second category ↓.

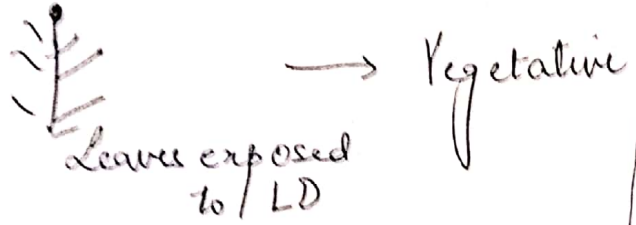
But still if multiple inductive cycles are given to this plant, flowering is more rapid and prolific.

What is the organ of perception of correct photoperiod?

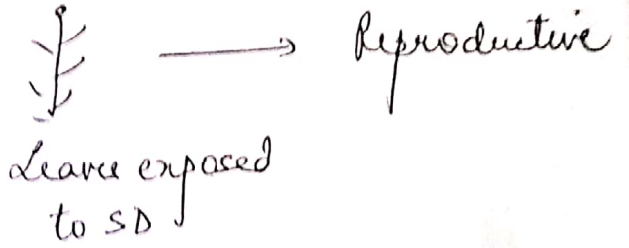
Leaves

Let us take example of Perilla (SDP).

Plant A

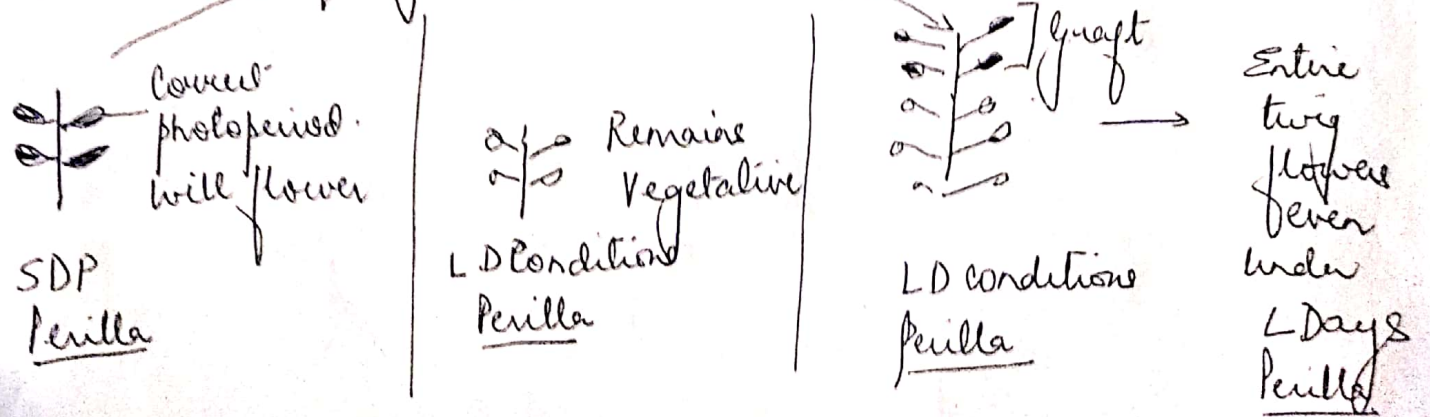


Plant B



Even a single leaf is enough for perception.

Grafting experiments confirm this.



- ① What is a bioassay?
- ② Name the bioassay for:  $C_2H_4$  & CKs.
- ③ Name one inhibitor of  $C_2H_4$  biosynthesis.
- ④ Climacteric Respiration.

Explain

Role of  $C_2H_4$  in Fruit Ripening.

Commercial roles/applications of CKs.

\*\* Please read topic  $C_2H_4$  & CKs and answer the above questions.

WEEK 5.