

09/07/21
Friday

Conditions necessary for germination

① Water : [or Moisture] :

* water helps to soften the seed coat.

* It also changes the stored

means, Insoluble To Solubilised
Food material

So that it can be used by the baby plant.

② Air / Oxygen :

* As seeds require oxygen to breathe and also energy for the growth of embryo.

③ Sunlight / Temperature :

* seeds will not germinate if they do not get enough sunlight.

Dispersal of Seeds:

* Dispersal is the scattering of seeds.

* Agents of scattering of seeds:

* wind

* water

* Animals and human beings
and brushing of fruits

Wind:

Example: (1) → Seeds of dandelion have tufts of hair

→ Tufts of hair means bunch of hairs

→ Tuft [collection]

→ As they are light so blown by wind.

(2) Cotton seeds have fluff around them

Fluff means soft thread of fibre.

* So this fluff help them to fly.
(3) Sycamore tree has winged fruits
water :

* Plants which grow near water,
the seeds and fruits dispersed
by water.

* The seeds stay afloat due to its
structure.

Example : Coconut
↓

- * It is hollow inside
- * It has thick fibrous cover that's
why, it floats.

Other example :

Lotes, water lily and hydrilla.
Animals and human beings :

* Human beings, birds and animals
eat the fleshy part of fruit
and throw away the seeds.

The tiger nail seed $\xrightarrow{\text{has}}$ hooks

The Spear grass fruits $\xrightarrow{\text{has}}$ Stiff hair

The Xanthium fruit $\xrightarrow{\text{has}}$ Spines

Bursting of fruits:

* Seed burst, when the fruits are ripe and ready
or

The fruits curl up on drying.

So the seeds burst open and scatter
or throw out everywhere.

Example: \rightarrow Pea
 \rightarrow Balsam
 \rightarrow Castor

Note: Some hooked and spined fruits cling to the body of animals and birds and to the clothes of human being.