



The seeds need to be **scattered** away from the parent plant to give rise to healthy plants

Highlights/Summary of the Topic

DISPERSAL OF SEEDS

The process by which the seeds are scattered away from the parent plants is called seed dispersal.

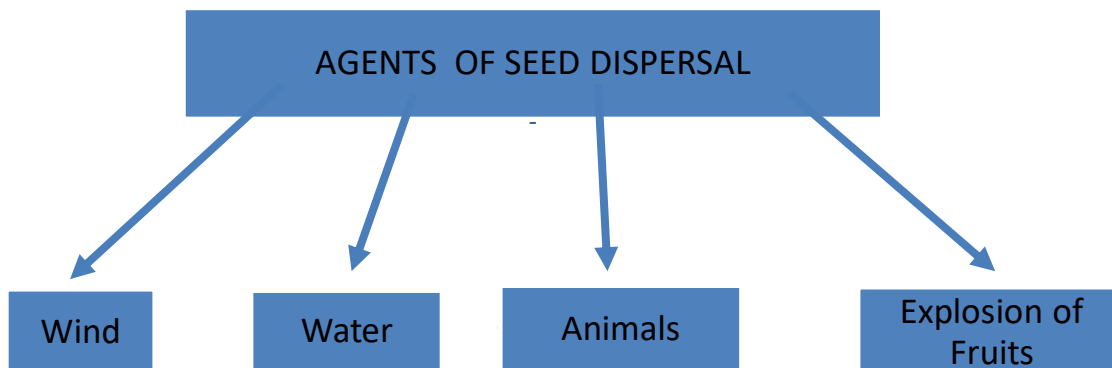
Plants are fixed to the ground and can't move from one place to another.

So how do they scatter their seeds?

Let us think....



Nature has devised various agents to scatter the seeds :-



Different fruits and seeds have certain special structures that help in their dispersal.

➤ Dispersal by Wind

- These seeds have light weight.
- They are small in size.
- Some of these seeds have feathery hair on them. For example, Cotton, Dandelion, Madar which help them to be carried away with a gust of wind.
- Some other seeds have wing like structures that help them to spin like helicopters as they fall from the tree and are carried away by wind for example Sycamore, Maple and Hiptage seeds.



Dandelion



Cotton



Sycamore



Maple

➤ Dispersal by water

- Water carries the seeds of some plants growing along the sea coast for example coconut.
- Coconut fruit has a fibrous outer covering that help it to float in water.



- Some plants growing in the water like Lotus and Water Lily have spongy cup like fruits to float in water and scatter their seeds.



Water Lily



Lotus

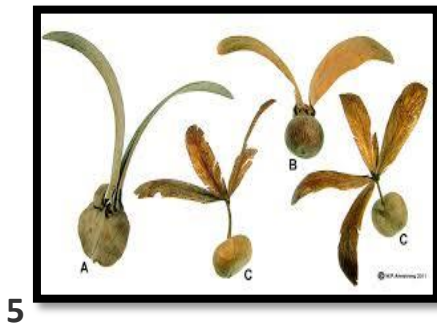
Practice Time- THINK AND ANSWER

(Q 1 to 4 need to be done in the notebook)

Q1. Observe the following seeds carefully. Categorize the seeds shown below into 2 types: Those dispersed by wind and those which are dispersed by water.

Dispersed By Wind: _____ (write numbers associated with the pictures)

Dispersed By Water: _____ (write numbers associated with the pictures)



fruit with seeds



- Q 2. What characteristics help the seeds to travel long distances by wind? (20-30 words)
- Q 3. What helps a coconut fruit to float easily in water though it's quite heavy? (20-30 words)
- Q 4. What kind of fruits do you find in water lily and lotus plants? How do these help them to float in water? (20-30 words)

LIFESKILL ACTIVITY

Arrange the books and notebooks properly in your bookshelf/study table so that you can find them easily and the place looks neat and tidy.



GK ACTIVITY

SPRING



Spring is the season when cold **winter** temperatures gradually rise to the warmth of summer. Spring begins on the **spring equinox**, when **the hours of daylight are equal to the hours of darkness**. In the Northern Hemisphere this occurs on March 20 or 21. In the Southern Hemisphere it happens September 22 or 23.

What is an
EQUINOX?

At two points in the year the Sun will light up the northern and southern hemispheres **equally**. It means that the **day and night are nearly equal** at these points. These are known as the EQUINOXES:

- ***Autumnal equinox (in autumn)***
- ***Vernal or spring equinox (in spring)***

https://www.youtube.com/watch?v=CSs8K_HQSZ4

FUN TIME

Q: When did the spring equinox occur in 2020?

Q: During the Spring Equinox, the day was _____ the night.

a) Longer than

b) nearly equal to

c) Shorter than