

GIRLS' HIGH SCHOOL AND COLLEGE,

PRAYAGRAJ

Worksheet No.-3

Class-5(A-F)

Subject- Science

Session-2020-21

Topic: Dispersal of seed

Instruction: Parents are expected to ensure that the child understands the topic,learns and is able to answer the questions.

The process by which seeds are scattered away from the mother plant is called **seed dispersal**.

If all the seeds fall near the parent plant then all of them might not survive or germinate due to lack of space to grow,food,water and sunlight.

Dispersal of seeds is carried out by wind,water,animals and explosion of fruits. These are called **agents of dispersal**.

Wind: Some seeds are light,having wings or hair,so they can be easily carried away by wind. e.g. cotton, dandelion, drumstick.

Water: Some seeds are transported by water from one place to another, as they have spongy or fibrous covering. e.g. lotus,coconut.

Animals: Animals including human beings eat fruits and throw away seeds,which grow into new plants.Some seeds have hooks,hair or spines,which help them in dispersal. e.g. cocklebur, mango,guava.

Explosion: Some seeds burst open when they ripen.The seeds pop out and get scattered. e.g. pea, poppy.

EXERCISE:

Answer the following questions-

- 1.What is seed dispersal?
- 2.Why do plants have to disperse seeds?
- 3.How many agents are there for the dispersal of seeds?

Fill in the blanks:-

1. ___ is dispersed by wind.
2. ___ has spines or hooks for dispersal.
- 3.Coconut seeds are dispersed through ___.
- 4.Seeds of peas are dispersed by ___.

Reproduction through other parts

New plants can also be grown from roots, stems and leaves of parent plant.

Roots of carrot, radish, sweet potatoes store food, when planted in the soil, they can grow into a new plant.

Stem cuttings of hibiscus, rose and sugarcane can grow into new plants.

Potato, ginger and onion are underground stems.

A piece of potato with an eye, called **bud**, can grow into a new plant. Ginger and onion will also grow into new plants when planted in the soil.

Bryophyllum leaf with buds on its margin can also grow into new plants when the leaf falls on the moist soil.

EXERCISE:

Give answer in one word:-

1. Name the plant which can grow from leaf bud.
2. Name an edible root.
3. This underground stem has 'eyes'.
4. Name the stem cutting from any plant which gives rise to a new plant.

Name the parts of the plant we use to grow:

1. Ginger plant
2. Hibiscus plant
3. Sweet potato plant

Answer the following questions:-

1. Name the two ways in which plants reproduce other than by seeds.
2. How does a new potato plant grow?