

L-1 Plants : Increasing the numbers

I Technical words:

1. Soil erosion:

The removal of the fertile top layer of the soil by the wind or flowing water is known as soil erosion.

2. Crops:

Plants of one kind grown in a particular area or region during a particular period.

II Short answer:

1. Name the conditions necessary for germination

Ans * The conditions necessary for germination are air, water and warmth. (sunlight)

* Germinating seeds need air to breathe.

* Water makes the seed coat soft.

* Warmth is needed for the cells of the seed to become active.

2. What is meant by dispersal of seeds?

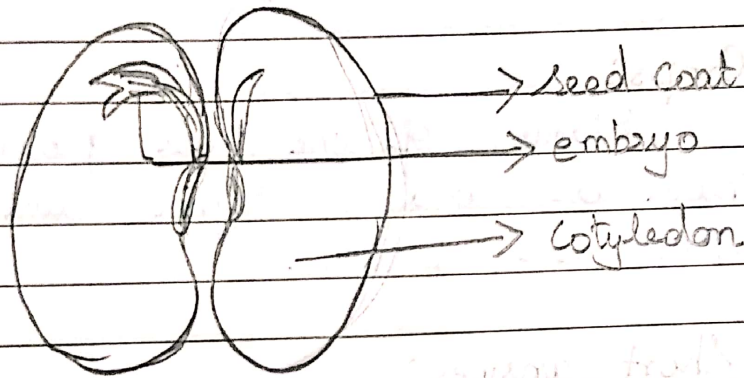
Ans The scattering of seeds or fruits away from their parent plant by agents of nature is called dispersal of seeds.

3. What is agriculture?

Ans The practice of growing plants on a large scale is called agriculture.

III Long Answer:

1. Explain the parts of a seed. Draw a diagram and label the parts.



Parts of a seed

* Seed coat is the hard, outer covering of the seed that protect the seed leaves.

* Cotyledons are the seed leaves. They provide food to the baby plant or embryo and also protect it.

* Embryo is the baby plant inside the seed. When conditions are favourable, it becomes seedling.

2. Differentiate between Monocot seeds and dicot seeds.

Ans	Monocot seed	Dicot seed
i)	Seeds with only one seed leaf are called monocot seed	Seeds with two seed leaves are called dicot seed.
ii)	Plants with monocot seed have fibrous root system	Plants with dicot seeds have tap root system.
iii)	Example: Wheat, rice and Maize	Examples: gram, peas and beans.

3. Why must seed be dispersed? What are the different agents of dispersal?

* Plants are fixed to the ground and cannot move from one place to another.

* If all the baby plants grow near the parent plant, all would not survive.

* They would not get sunlight, food, water and space to grow. So, seeds must be dispersed.

* The different agents of dispersal are wind, water, animals and by explosion of fruits.

IV. HOTS:

1. A papaya has many seeds. Each papaya seed can grow into a new tree, However, that does not happen, why?

Ans * All seeds do not grow into new plants because some seeds are not fully grown when they are separated from their parent plants.

* Some are destroyed by strong winds, heavy rains or eaten by animals.

* Some do not get right soil, enough air and water. So such seeds do not grow into new plants.

2. Why can't we grow tea in Rajasthan?

Ans * Tea plants need moist soil and grow on the slopes of hilly areas.

* In Rajasthan, soil is sandy in nature. So, we can't grow tea in Rajasthan.

g. sharma

L-2 Food and health

I Technical words:

1. Haemoglobin:

A protein in red blood cells that carries oxygen from the lungs to the tissues.

2. Vaccination:

The act of injecting vaccine to protect against disease.

II Short answer:

1. What is deficiency disease?

Ans A disease which is caused due to deficiency or the lack of a particular mineral or vitamins in the body is called a deficiency disease.

2. How do houseflies spread disease?

Ans Houseflies carry germs from sewers and contaminate our food and water. Diseases can be spread through infected food and water.

3. What is meant by Pasteurization of milk?

Ans The process of heating milk at a high temperature for atleast half an hour and then quickly cooling it to kill harmful bacteria is called pasteurization.

III Long Answer:

1. What precautions would you take to check the spread of malaria?

Ans * Malaria is caused by a protozoan which is carried by the female Anopheles mosquito.

* We should take precautions to stop breeding of germs.

* Destruction of mosquitoes and their breeding grounds is the best solution to check the spread of Malaria.

* We should use a mosquito net or mosquito repellent at night.

2. Which steps would you take to prevent the spread of germs from a sick person?

Ans * Combs, soap, towels and clothes of the sick person should be kept separate. All such articles should be properly disinfected or boiled to kill the germs.

*The floor and the walls of the room must be sprayed with a disinfectant.

*We must report to civic authorities to take precautions to prevent the spread of disease.

*Children suffering from any communicable diseases should stay away from school till they recover.

IV HOTS

1. Raju has bleeding gums and swollen joints. Name the disease he is suffering from. What is the cause and remedy of this disease?

Ans i) Raju is suffering from scurvy.
ii) It is caused by the deficiency of vitamin C.
iii) Citrus fruits, amla, tomato, sprouted grains and pulses helps to prevent this disease.

2. When you have a cold and cough, Your parents ask you not to go to school. Why?

Ans Cold and cough is a communicable disease caused by virus and spread through direct contact.

4 Shwetha