

# **St. Andrews Scots Senior Secondary School**

**9<sup>th</sup>, Avenue, I.P Extension, Patparganj**

**Class-V**

**Sub-Science**

**Session- 2025- 2026**

## **Lesson – 1 Plant Reproduction**

- **Reading of the chapter**
- **Explanation (will be done in class)**

**(Textbook exercise)**

- **A. Tick the correct answer.**

- 1. water**
- 2. cotyledon**
- 3. wheat**
- 4. sunlight**

- **B.Fill in the blanks.**

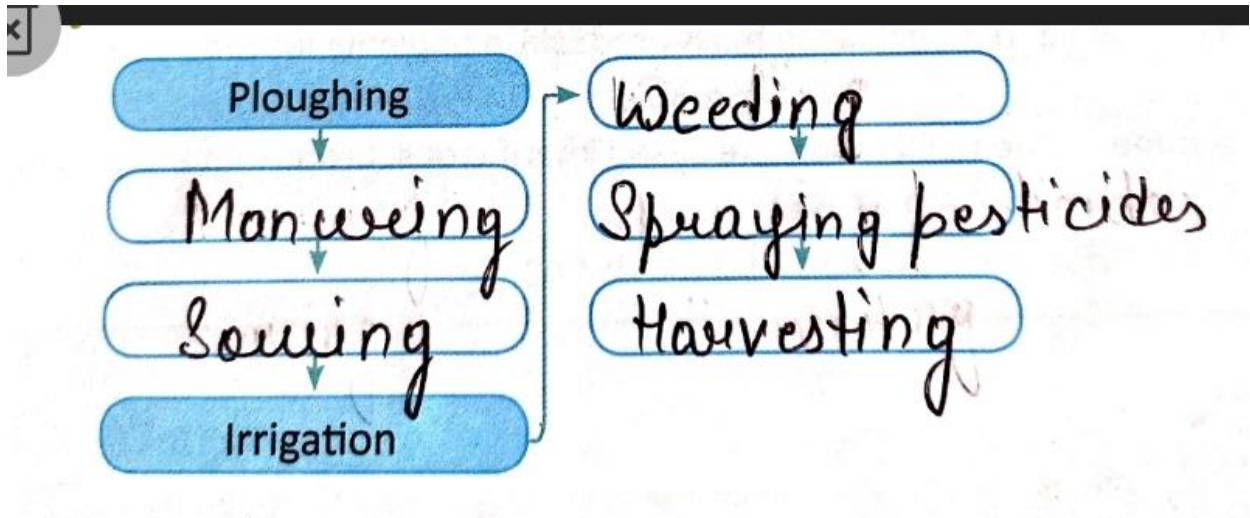
- 1. Seed coat**
- 2. Manure, Fertilizer**
- 3. Spores**
- 4. Radicle, Plumule**
- 5. Agriculture**

- **C. Match the following.**

- 1. (d) Rice**
- 2. (a) Ginger**
- 3. (e) Ferns**
- 4. (b) Bryophyllum**

5. (c) Cotton

- D Complete the given flowchart.



(Notebook Work

New Words

Any 10 words

FIB

- a. Seed coat is the outer covering of the seed.
- b. Manure and fertilizer add nutrients to soil.
- c. Ferns and mushrooms reproduce through spores.
- d. Radicle and plumule are root and shoot respectively of a seedling.
- e. Agriculture is the branch of science that deals with mass production of plants for food and other purposes.

### **Defines**

- 1. **Tilling-** To prepare the field for raising a crop.
- 2. **Chaff-** The outer part of a grain like wheat.
- 3. **Rodents-** Any of the various small mammals like rats and mice which have large, sharp front teeth.
- 4. **Crop-** The plants of one type that are grown in a particular region during a particular period of time.

### **Short Question/Answer**

- 1 Name the different parts of a seed. (In book)

**Ans** Seed coat and seed leaves.

2. Name two seeds dispersed by explosion. (In book)
- Ans.** Peas and Balsam.

3. What is germination? Write the conditions needed for germination of seeds.

**Ans.** Germination means developing of seed into a seedling. Conditions necessary for germination are warmth, water and air.

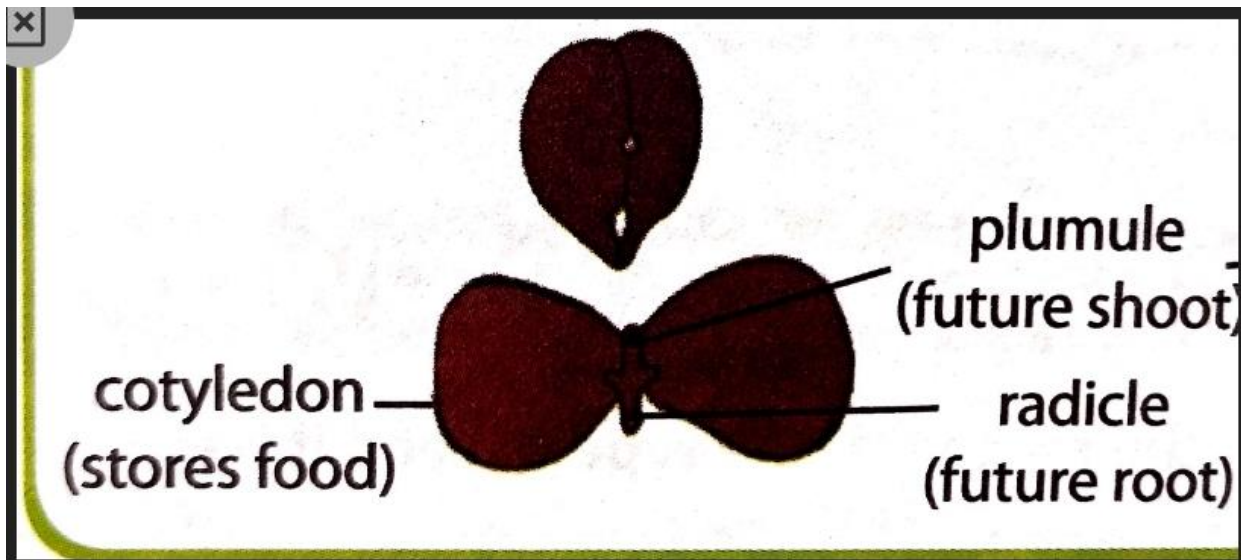
**4. Why do seeds need to be dispersed?**

**Ans.** Seeds need to be dispersed so that all the seeds do not grow at one place as they will compete for water, nutrients and sunlight.

### **Long Question/Answer**

**1 Explain the structure of a gram seed with the help of a labelled diagram.**

**Ans.** It has a outer covering called seed coat. Inside it are two leaves known as cotyledons. Inside the cotyledons there is a baby plant or embryo. The embryo has two parts- a baby root called radicle and a baby shoot called plumule.



**2 What is dispersal of seeds? Name the agents of dispersal of seeds.**

**Ans.** The process by which the seeds are scattered away from the parent plant is called seed dispersal. Agents of dispersal are wind, water, animals and explosion.

**3 What is vegetative propagation? Name two plants each that reproduce through stem and leaves.**

**Ans.** The method of growing plants from the vegetative part is called vegetative propagation. Two plants that reproduce through stem are rose and money plant. Two plants that reproduce through leaves are begonia and bryophyllum.

**4 Give difference between (a) rabi crop and kharif crop and (b) monocot and dicot seeds.**

**Ans.**

<b>Rabi crops</b> a) These are grown in winter. b) Eg - wheat, barley and peas	<b>Kharif crops</b> a) These are grown in summer b) Eg - rice, maize and jawar
<b>Monocot seeds</b> a) Seeds having one cotyledon. b) Eg - maize, oats and rice	<b>Dicot seeds</b> a) Seeds having two cotyledons. b) Eg - peas, beans and grams.

**5 What is agriculture? Explain the various stages of agriculture.**

**Ans.** Agriculture is the branch of science that deals with mass production of plants for food and other purposes. Various stages of agriculture are:-

- **Ploughing-** Loosening and tilling of soil.
- **Manuring-** Adding nutrients to soil.
- **Sowing-** Sowing healthy seeds in soil.
- **Irrigation-** Supplying sufficient water to the crops.
- **Weeding-** Removal of unwanted plants from field.
- **Spraying pesticides-** Killing of insects and pests by spraying pesticides.

- **Harvesting- Cutting of mature crops.**
- **Threshing- Removal of grain from chaff.**

**6 How do plants depend on animals for their germination?**

**Ans. Animals eat the fleshy part of the fruit and throw their seed. These seeds develop into new plants. Some seeds have hooks, sticky hair or spikes that stick to the body of animals and get carried away to distant places.**

### **Give Reasons**

**1. Will a maize crop give good yield if grown in summers? Why?**

**Ans. Yes, because it needs warm temperature and plenty of sunlight to grow and produce a good yield.**

**2. What would happen if a farmer forgets to put manure in his field?**

**Ans. If a farmer forgets to put manure in his field, crops get deficient in nutrients causing less yield.**

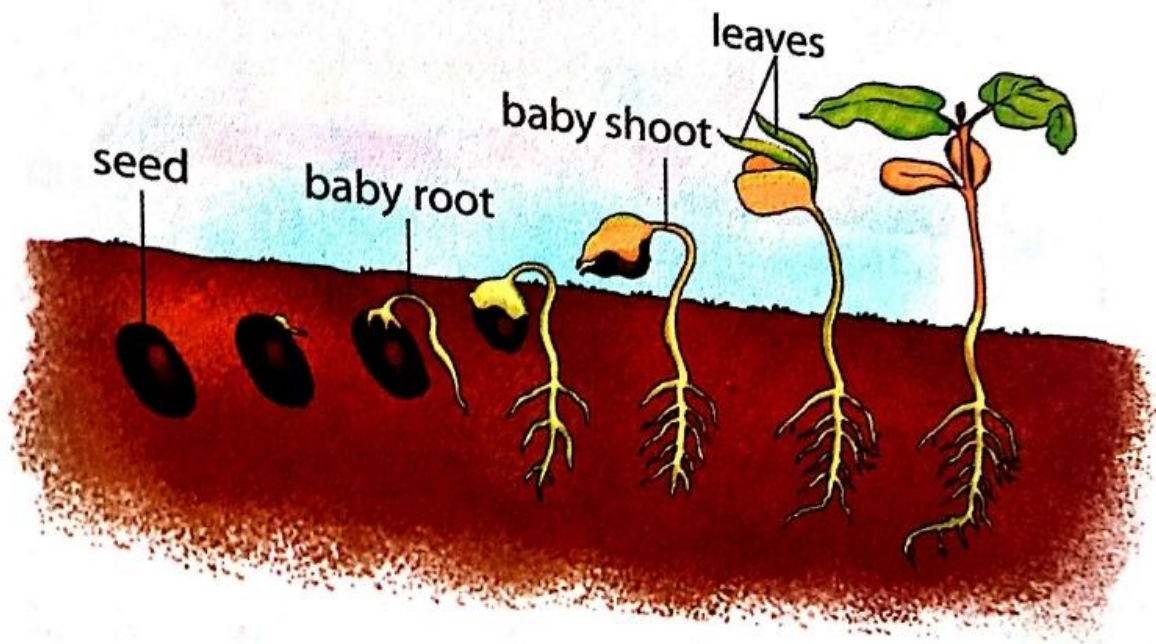
### **Activity**

**Collect seeds of some plants and paste them in your scrapbook.**

### **Dictation**

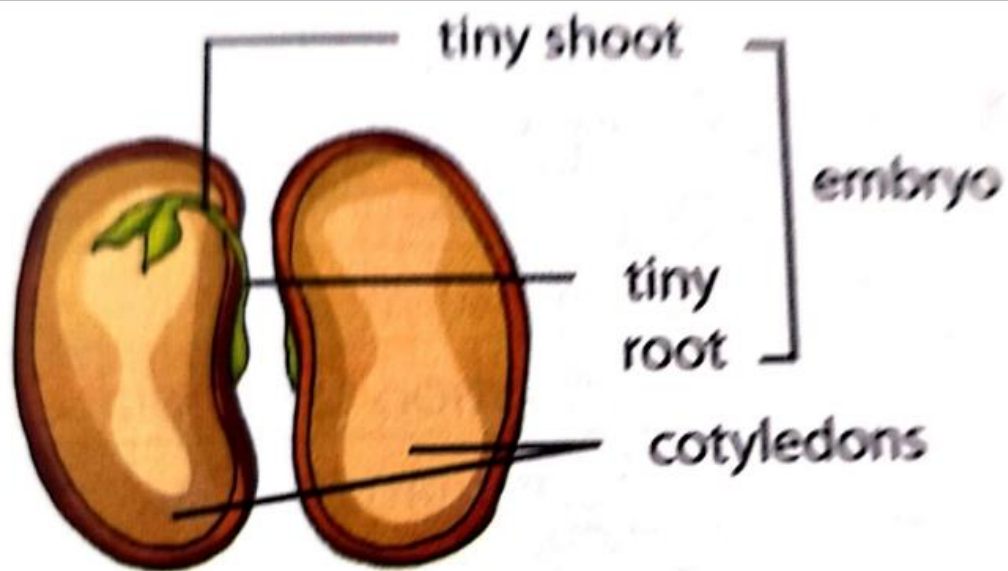
**Any 10 words**

### **Diagrams**



Stages of germination of seed





Structure of a seed

