

Ch-1 Growing Plants

B. Give short answers.

1. Define germination.

Ans. The change of a seed into a seedling is called germination.

2. What are the necessary conditions for seeds to germinate?

Ans. Water, air and warmth are the necessary conditions for seed to germinate.

3. What is the role of cotyledons in the growth of a seedling?

Ans. Cotyledons store food for the seedling.

4. What is vegetative reproduction?

Ans. Growing plants from their body parts such as root, stem or leaves is called vegetative reproduction.

5. How does soil affect the growth of plants?

Ans. Soil affect the growth of plants as some plants grow well in one kind of soil but poorly in another. For example rice and jute need soil that can hold enough water like loamy and clayey soil. Whereas wheat, jowar, bajra are grown in sandy and irrigated soil.

C. Answer the following questions.

1. Name different parts of a seed . Support your answer with diagram.

Ans. The different parts of seed:-

(a)Seed coat

(b) Seed leaves or cotyledons

(c)Embryo

Draw the diagram shown in page number 6 structure of seed.

2. Explain the three main ways by which new plants can be grown.

Ans. The three main ways by which new plants can be grown are:-

(a) From seeds – Most plants grow from the seeds. If we sow a seed in the soil, the seed germinates in few days .Within a few days a tiny plant appears that gradually develop into a big plant.

(b) From roots - Carrot and sweet potato can grow into new plant from their roots.

(c) From stem - Many plants like rose, money plant, sugarcane can be grown from stem cuttings.

3. Which factors affect the growth and development of plants? Explain briefly.

Ans. Factors which affect the growth and development of plants are:-

a. Soil - Soil is one of the important factor for growing plants, some plants grow well in one kind of soil but poorly in another. Different plants required different kind of soil.

b. Climate - Different plants are adapted to different climate. The aquatic plant grow in water while the desert plants like cactus grow best in desert area.

c. Seasons – Seasons also affect the growth of plant. Crops that grow in winter are called rabi crops and the crops that grow in summer are called kharif crops.

4. Give five tips for a better crop yield.

Ans. Five tips for a better crop yield are as follows:-

- **Use healthy and better quality of seeds for sowing.**
- **Prepare the land well before sowing.**
- **Irrigate the plants properly.**

- **Add manures and fertilizers to the soil.**
- **Remove weeds from the fields for the proper growth of plants.**

D. Give two examples of each.

- 1. Monocot plants- maize and wheat**
- 2. Dicot plants – gram and pea**
- 3. Seeds dispersed by wind - cotton and hiptage**
- 4. Seeds dispersed by water - coconut and lotus**
- 5. Plants grown from stem cuttings - rose and sugarcane**