



**Q I. Study the picture given below and answer the questions.**

1. Identify the picture.

Ans: \_\_\_\_\_

2. State whether the following statement is true or false.

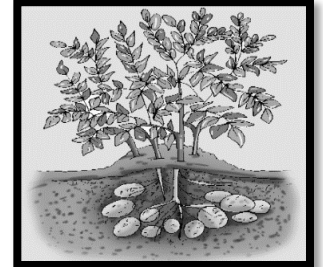
Potato and ginger are examples of underground stems. Ans: \_\_\_\_\_

3. What are the buds on the surface of a potato or ginger called?

Ans: \_\_\_\_\_

4. What is the function of the eyes on a potato or ginger?

Ans: \_\_\_\_\_



**Q II. Case study:**

A) Ria went to a plant nursery with her mother. The gardener approached them and asked what type of plant they were looking for. Ria's mother expressed her desire for a flowering plant that had a pleasant fragrance. The gardener then showed them a specific plant and explained that this variety had been developed through the vegetative propagation of stems. Ria became curious and began asking the gardener some questions. Can you help the gardener answer Ria's questions?

1. What is vegetative propagation?

Ans: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. How is vegetative propagation of stems carried out?

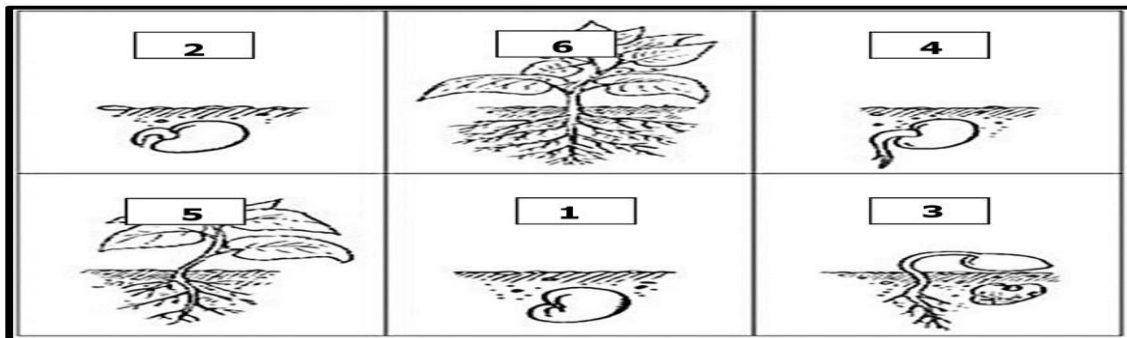
Ans: \_\_\_\_\_

\_\_\_\_\_

3. Name some plants which are grown using this method.

Ans: \_\_\_\_\_

B) To test Ria's knowledge of the germination of seeds, the gardener provided a picture and asked her to number the stages of germination in the correct order. Ria numbered the stages quickly.



1. Did Ria number the stages in the correct order? Circle the correct option. Yes / No

Justify your answer with a suitable reason.

Ans: \_\_\_\_\_  
 \_\_\_\_\_

2. What would occur if the stem developed before the roots during germination? (HOTS)

Ans: \_\_\_\_\_  
 \_\_\_\_\_

**Q IV. Project: Research-based.**

Scan the provided QR code to watch a documentary film about a unique seed that walks away to disperse itself from the parent plant. Provide answers to the questions related to the video.



1. What is the name of the plant featured in the video?

Ans: \_\_\_\_\_

2. Complete the following statements by choosing the correct option from the bracket.

The seeds of these plants have two \_\_\_\_\_ (bristles/brushes) known as awns. Once the seeds fall to the ground, their awns help them to \_\_\_\_\_ (fly/walk)

3. How does the tiny hair help the seed while walking?

Ans: \_\_\_\_\_  
 \_\_\_\_\_

4. Where do the seeds eventually hide themselves?

\_\_\_\_\_

5. Identify the website where the given video can be found.

Ans: \_\_\_\_\_