

1- Write two differences between natural and artificial vegetative reproduction.

A- NATURAL VEGETATIVE REPRODUCTION

- Natural vegetative reproduction refers to the natural development of a new plant without human intervention.

- Naturally occurs in plants

- Occurs through roots, bulbs, corms, tubers, suckers, rhizomes etc.

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ARTIFICIAL VEGETATIVE REPRODUCTION

- Artificial vegetative reproduction refers to the artificial development of new plants by means of human intervention.

- Occurs under influence of man

- Occurs through budding, grafting, layering, cutting, tissue culture etc.

2. What is tissue culture? How it is beneficial for gardeners?

A. Tissue culture is one of the ways of cloning plants. It works with small pieces of plants, called explants.

Benefits of tissue culture for gardeners

- The new plantlets can be grown in a short amount of time.
- Only a small amount of initial plant tissue is required.
- The new plantlets and plants are more likely to be free of viruses and diseases.
- The process is not dependant on the seasons and can be done throughout the year.

3. Draw the diagram of flower and label all the parts.

