HORTICULTURE

To,
Fifth semester students

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INTRODUCTION

• Also known as garden culture.

• It is the science, art, profession, or business, that is concerned with the production, processing and marketing of vegetables, flowers, fruits, nuts, ornamental plants, and so on.

- *Hortus* – garden
- *Cultura* – cultivation
- Estates – gardens – horticulture (cultivation in gardens & orchards)

Difference between horticulture & agriculture

- **Horticulture**
- More intensive
- Less extensive manner
- Production of garden crops(vegetables, flowers, fruits etc)
- Returns from the investment is high

- **Agriculture**
- Less intensive
- More extensive manner
- Production of wheat, rice, etc
- High level use of machinery

- The study of horticulture enable us to manipulate plants for maximum growth, higher yield & superior quality of their produces.

- It involves the manipulation of plant material by artificial propagation, controlled breeding and genetic modification.

- It provides employment & food for mankind.

- Involved in the production of fertilizers, pesticides, machinery, implements & so on

Topiary

Plant sculpturing by making use of fantastic shapes of shrubs & evergreen trees.

DISCIPLINES OF HORTICULTURE

1. Production horticulture
2. Service horticulture

Production horticulture

Cultivation of crop plants which yield valuable products.

Service horticulture

Development & maintenance of gardens, arborata & landscapes for scientific aesthetic, cultural & recreational purposes.

Broad categories of horticulture based on kinds of plant used

1. Pomology
2. Olericulture
3. Ornamental horticulture
4. Gardening
5. Turf culture
6. Landscaping
7. Protected culture or protected cropping
8. Nursery stocking

Pomology

• Concerned with production, harvesting, processing, preservation, storage & marketing of fruits & nuts.

• Orchards : farmlands where fruit trees are grown in large numbers.

• Fruits –juicy & succulant (grapes, oranges)

• Hard & dry (cashewnut, walnut)

• Widely exploited fruits/major fruits : grapes, apples etc

• Under exploited fruits/minor fruits : sapota, watermelon

Olericulture

- Production of vegetables.

- fruits - tomato, brinjal, cucurbits, gourds

- Leaves – spinach, amaranth

- Tubers – carrot, beetroot

- Pods – peas, beans

- Short living not ideal for long term preservation & storage, but can be taken for short term freeze preservation

Ornamental horticulture

• Production & use of ornamental & flowering plants for aesthetic, decorative or ornamental purposes.

• Two divisions : 1. floriculture

2. arboriculture

floriculture

- Commercial cultivation of flowering plants for economically important flowers.

- Jasmines, roses, etc – cut flowers, extraction of essential oils from flowers.

- Decoration purposes

arboriculture

- Growing of trees in specific locations for scenic beauty & aesthetic, educational, scientific & conservational purposes.

- Arborata – places where trees are artificially grown.

Gardening

- Art of growing flowering plants & ornamentals in indoor & outdoor areas.

- Indoor gardens & out door gardens

- Professional gardening : decorative & productive aspects.

Turf culture

- Maintenance of decorative lawns in public & private gardens, & maintenance of sports surfaces for football, cricket, golf, etc.

Land scaping

- Beautification of an area for aesthetic & cultural purposes by modifying its scenic look using plants, nonliving objects, sculpures, models etc
- Landscape gardening
- Soft landscaping
- Arboriculture
- Patios
- Aquatic gardening

Protected culture

• Cultivation of horticultural plants in artificial settings.

• Using polythene bags is significant in the production of vegetables, flowering pants, etc

Nursery stocking

- Production of land grown or container grown young plants.

- Young plants are usually raised from seeds, cuttings, layers and grafts, or by tissue culture methods.

Scope of horticulture

1. Horticulture as a source of food.
2. As a source of ornamentals
3. As a source of income & empoyment