

HPPSC HDO Syllabus

HPPSC HDO Syllabus - (Concerned Subjects)

UNIT- I

PRINCIPLES OF HORTICULTURE

Scope and importance of horticulture – Scenario of horticulture industry in the regional, National and global economy – Area and production – Export and import – Nutritive value of horticultural crops – Horticultural therapy and etc.

UNIT – II

PROPAGATION AND NURSERY TECHNIQUES OF HORTICULTURAL CROPS

Sexual propagation, principles, advantages, and disadvantages – Apomixis, polyembryony, seed dormancy and methods to overcome the dormancy – Factors influencing seed germination – Portrays – Containers – Media – Growing structures – Management of fruit nursery – Asexual propagation and etc.

UNIT – III

GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS

Important phases of growth and development – Definitions, photosynthetic productivity, leaf area index (LAI) – optimum LAI in horticultural crops. Canopy development: Different stages of growth, growth curves and etc.

UNIT – IV

BREEDING OF HORTICULTURAL CROPS

Scope and importance of plant breeding in horticultural crops – Breeding systems and objectives – Plant genetic resources – Modes of reproduction – Mechanisms of pollination control, sterility, and incompatibility – Effect of mating systems.

HORTICULTURE (DEGREE STANDARD)

UNIT- I

FUNDAMENTALS OF HORTICULTURE

Scope and importance – State, National and Global scenario of horticultural crops – Area and production – Import and export – Nutritive value of horticultural crops – Horticultural zones of

Tamil Nadu and India – National and regional agencies involved in the promotion of Horticultural Industry in India (NHB, APEDA, and Commodity Boards).

UNIT – II

GROWTH AND DEVELOPMENT OF HORTICULTURAL CROPS

Important phases of growth and development – Bearing habits – Classification of horticultural crops based on life cycle – Annual, biennial perennial (woody and herbaceous perennials) – Fruitfulness and unfruitfulness – External and internal factors associated with unfruitfulness – Physiology of flowering.

UNIT – III

PROPAGATION OF HORTICULTURAL CROPS

Propagation – Definition – Establishment of the nursery – Site selection – Tools and implements propagation structures – Mist chamber, phytotron – Humidifiers – Greenhouse – Glasshouse – Poly house – Shade net, glass house, polytunnels, cold frames and hotbeds, pit nursery – Media and containers – Soil sterilization – Sexual propagation.

UNIT – IV

MANAGEMENT TECHNIQUES FOR HORTICULTURAL CROPS

Planning – Layout and management of orchards – Fencing – Windbreaks and shelter beds – Spacing – Planting system – Physical and chemical properties – Soil reaction – acid, saline and alkaline soils – Soil fertility – Essential elements – Functions – Organic manures and inorganic fertilizers.

UNIT – V

POST- HARVEST TECHNOLOGY OF HORTICULTURAL CROPS

Importance of post-harvest handling in horticultural crops – Maturity indices – Post-harvest handling methods – Washing – Grading – Waxing – Grades and standards – Methods of packing – Types of containers and their advantages and disadvantages.

Himachal Pradesh Public Service Commission General Knowledge Syllabus

- Geography of India
- Economic issues in India
- National news (current)
- International issues
- Tribes
- Indian Culture

- Handicrafts
- Countries and capitals
- Political Science
- Scientific observations
- About India and it's neighboring countries
- New inventions
- World organizations
- Famous Places in India
- Books And Author
- Science and innovations
- Important Dates
- Music & Literature
- National Dance
- Famous Places
- Artists
- Tourism spots of Historical Importance
- Sculptures
- Musical Instruments etc