PAPER I

COMMERCIAL NURSERY MANAGEMENT FOR HORTICULTURAL CROPS

DETAILED SYLLABUS

Unit 1: Introduction to commercial nursery management

10 marks

Nursery trade in India, Scope for commercial nursery. Definition of nursery, Nursery management. Different types of ornamental / flowering plants, some popular ornamental plant species.

Unit 2: Planning and lay out of commercial nursery

10 marks

Selection of site, Planning and layout, Structures for nursery, Standard rootstocks

Unit 3: Tools and implements for nursery

10 marks

Different types of tools and implements,, pots and pans, Seedling trays, Plant supports and tying materials and others

Unit 4: Propagation techniques

30 marks

Definition, Seed Propagation – procedure of seed propagation, Vegetative Propagation-propagation by cuttings, propagation by layering ,propagation by budding, propagation by grafting, propagation by specialized vegetative structures

Unit 5: Propagation of some important flowering crops

20 marks

Propagation of chrysanthemum, Propagation of dahlia, propagation of bulbous ornamental plants by corms and bulbs, propagation of gladiolus, propagation of tuberose

Unit 6: Propagation by Tubers, Rhizomes and their division

20 marks

Propagation by specialized organs/structures-tubers, rhizomes, suckers

PAPER 2

COMMERCIAL NURSERY MANAGEMENT FOR HORTICULTURAL CROPS

DETAILED SYLLABUS	
Unit 1: Raising saplings of nut crops (Coconut and Arecanut): Raising of saplings- coconut –criteria of selection of mother palm for nut collection, method of sowing, good quality seedling, method of sowing of arecanut, seedling quality of arecanut	10
Unit 2: Multiplication techniques in black pepper and betel vine: Multiplication techniques-vine cutting, leaf bud cutting, trench layering or Rapid Multiplication Technique. Unit 3: Commercially available rooting and growing media and vermicompost	10
production: An ideal rooting medium, media for propagation and growing nursery plants- soil, sand, peat, sphagnum moss, vermiculite, perlite, pumice. Media for potting. Vermicompost production-preparation, use of vermicom nursery 15	post in
nursery 15 Unit 4: Propagating structures:	
Low cost propagating structures-high density low cost poly houses, shade net houses, nursery beds and boxes. High cost propagating structures-high cost sophisticated Greenhouse, hotbeds, lath houses, mist	10
chamber, mist bed, fluorescent light boxes, propagating case Unit 5: Potting and repotting of nursery plants	10
Potting-advantages, pot mixtures, containers, potting procedure, m Repotting	aintenance
	lights, die Scales, cutworms,
real filmer, shall and stugs	
Unit 7: Progeny Block Definition, importance of progeny block, Selection of plants/varieties. I progeny block, Maintenance of progeny block, 1	_
Unit 8: Storage of Seeds Procedure for collection of seeds ,Techniques of seed storage ,Conta Bags, Management during Storage, Maintenance of seed purity	ainers and
Unit 9: Record keeping in nursery Different types of records	5

PAPER 3

COMMERCIAL NURSERY MANAGEMENT FOR HORTICULTURAL CROPS

DETAILED SYLLABUS

Unit 1: Preparation of Layout of a Commercial Nursery

- Unit 2: Identification of Tools and Implements for Nursery
- Unit 3: Seed Bed Preparation, Seed Sowing and Raising of Vegetable and Flower Seedlings
- Unit 4: Economics of Vegetable and Flower Seedling Production
- Unit 5: Propagation by Cuttings
- Unit 6: Propagation by Grafting
- Unit 7: Propagation of Chrysanthemum and Dahlia
- Unit 8: Propagation of Black Pepper and Betel Vine
- Unit 9: Propagation of Coconut and Arecanut
- Unit 10: Visits to Commercial Nurseries.