

M.Sc.(Ag.) Semester – I Examination, 2014

Horticulture

Course : HOR – 511

(Propagation and Nursery Management in Horticultural Crops)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions.

1. Define graft incompatibility? What are the types of graft incompatibility? Write in brief about the factors responsible for graft incompatibility. 1+3+6=10
 2. What are the importance, problems and prospects of nursery industry in India? 10
 3. Enumerate the importance of micropropagation in horticultural crops. Discuss in brief the different stages of micropropagation. 4+6=10
 4. Enumerate the important points of consideration while planning and layout to nursery. What is the importance of specialized structures in the nursery? 6+4=10
 5. Define growth regulators. Mention the different classes of growth regulators. Write in brief on the influence of growth regulators on germination and seedling growth. 1+4+5=10
 6. Explain the types of cutting followed in horticultural crops. Write in brief the factors that influence the rooting of cuttings. 6+4=10
 7. Distinguish between (**any five**): 2×5=10
 - (a) Sexual and asexual method of propagation
 - (b) Grafting and budding
 - (c) Mist house and poly house
 - (d) Cold frame and hot beds
 - (e) Stratification and scarification
 - (f) Growth regulators and growth retardants
 - (g) Natural media and synthetic media
 - (h) Rural and urban nursery
 8. Write short notes on (**any four**): 2.5×4=10
 - (a) Stock scion relationship
 - (b) Mist propagation unit
 - (c) Nursery management
 - (d) Seed certification
 - (e) Top working
 - (f) Polyembryony
 - (g) Types of dormancy
 - (h) Progeny orchard
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