

M.Sc. (Ag.) Examination, 2019

Semester-II

Horticulture

Course No: HOR-503

(Fundamental of Plantation, Spices, Medicinal & Aromatic Crops)

Time: Three Hours

Full Marks: 80

Questions are of the value as indicated in the margin

Answer **any five** questions.

1. (a) Enumerate the production technology of coriander for seed in details with special reference to soil, climate, planting requirements, varieties, manuring, water management, harvesting and yield. 12
(b) What are the special considerations required to grow coriander for leaf purpose? 4
 2. (a) Give a detailed account of the cultivation practices of tea for higher yield and quality. 10
(b) What are the various value added products of green, black and white pepper? Briefly discuss the origin and use of black pepper. 6
 3. Write about the improved package of practices of the following medicinal and aromatic crops:
(a) Aloe vera (b) Lemon grass 8+8=16
 4. Discuss the production technology of aswagandha and ocimum focusing on soil and climatic requirements, varieties, propagation and planting, intercultural operations, harvesting, yield and post-harvest processing. 8+8=16
 5. Write on the improved package and practices of black pepper for higher yield and quality. 16
 6. Discuss the harvesting and processing techniques followed in:
(a) Cardamom (b) Cashewnut (c) Coconut (d) Palmarosa
 7. Briefly discuss the commercial propagation techniques of:
Turmeric, garlic, cashew, periwinkle, sarpagandha, ocimum, vetiver and geranium. 16
 8. Write short notes on (**any four**): 4×4=16
 - (i) Tall coconut vs. Dwarf coconut tree
 - (ii) Significance of herbal industry
 - (iii) Plant protection measures for seed spices
 - (iv) Uses of mentha and isabgul
 - (v) Export potential of plantation crops in India
 - (vi) Requirement of organic certification of major spices
 - (vii) Importance and types of periwinkle
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