

**POST GRADUATE DIPLOMA IN PLANTATION  
MANAGEMENT (PGDPM)**

**Term-End Examination**

**December, 2021**

**MAM-002 : CROP PRODUCTION TECHNOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

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**Note :** *Answer any **ten** questions. All questions carry equal marks.*

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1. Discuss the practices for establishment of plantation and cultural operations of black pepper. 10
  
2. Discuss the management of the following pests and diseases :  $4 \times 2 \frac{1}{2} = 10$ 
  - (a) White fly of cardamom
  - (b) Leaf spots in nursery of cardamom
  - (c) Phytophthora foot rot of black pepper
  - (d) Katte or mosaic of cardamom
  
3. (a) What is organic certification ? Explain its need. 5  
(b) Explain the pests and disease management for production of organic small cardamom. 5

4. Explain the following practices for raising of plants in nursery :  $4 \times 2 \frac{1}{2} = 10$
- (a) Planting of cutting
  - (b) Cleft grafting
  - (c) Biclinal Seed Stock (BSS)
  - (d) Seed gardens
5. Prepare a schedule for the application of major and secondary nutrients in tea plantation. Also explain the micronutrients required in tea cultivation. 10
6. (a) What are different spray equipment used in tea plantation for plant protection ? 5
- (b) Discuss the relevance of organic tea cultivation. 5
7. Discuss about regions suitable for growing of rubber in India. 10
8. (a) Explain the techniques of planting of budded stumps and polybag plants in rubber. 5
- (b) What are non-parasitic maladies in rubber ? Explain their control measures. 5

9. (a) What are the varieties of Arabica and Robusta recommended for planting in India ? 5
- (b) Explain bush management practices followed for maintenance of coffee plants. 5
10. Explain the damage symptoms and management of the following pests and diseases of coffee :  $4 \times 2 \frac{1}{2} = 10$
- (a) Coffee white stem borer
- (b) Coffee root lesion nematode
- (c) Black rot of coffee
- (d) Stalk rot of berries
11. Describe the steps involved in establishment of new coffee plantations and their management under organic production system. 10
12. Write short notes on the following :  $4 \times 2 \frac{1}{2} = 10$
- (a) Origin and Distribution of Coconut
- (b) Spacing Recommended for Coconut Cultivation
- (c) Shading in Coconut
- (d) Fertilizer Recommendation for Coconut
13. Discuss the steps involved in techniques of softwood grafting in cashew. 10
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