

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

Term-End Examination

December, 2016

MAM-002 : CROP PRODUCTION TECHNOLOGY

Time : 3 hours

Maximum Marks : 100

Note : Answer any ten questions. Question No.1 is compulsory. All questions carry equal marks.

1. (a) Fill in the blanks with appropriate word(s). 1x5
- (i) Karimunda is an important cultivar of _____.
 - (ii) First plucking in tea recovering from pruning is called _____.
 - (iii) Abnormal leaf fall is an important leaf disease of _____.
 - (iv) Commercially cultivated coffee varieties are _____ and robusta.
 - (v) Plantation crops which yields both fibre and oil is _____.
- (b) Express in one word : 1x5
- (i) Bacteria which provide nitrogen to soil.
 - (ii) Any substance which delays the process of oxidation.
 - (iii) Uniform distribution of fertilizers on surface of the soil.

- (iv) Disease causing organisms like fungus, bacteria or virus.
- (v) Cultivation of SHORT duration crops like ginger, turmeric, banana in the interspaces of coconut.

2. Distinguish between the following : 2¹/₂×4
- (a) Weeding and trashing
 - (b) Biofertilizer and biopesticide
 - (c) Hard pruning and light pruning
 - (d) Brown budding and green budding
3. Define the following : 2×5
- (a) Integrated Pest Management
 - (b) Necrosis
 - (c) Roguing
 - (d) Scion
 - (e) Biological Control
4. Give **two examples** for each of the following : 2×5
- (a) High yielding varieties of Cardamom.
 - (b) Varieties of tea plants
 - (c) Pests of Cashew
 - (d) Pests of Coffee
 - (e) Bioagents for pest control

5. Write short notes on the following : 2½x4
- (a) Clonal tea Nursery
 - (b) Secondary nursery for Cardamom
 - (c) Cover crops in rubber cultivation
 - (d) Desuckering in coffee
6. Give reason for the following : 2x5
- (a) Mulching is essential in cultivation of spices.
 - (b) Tipping is necessary in Tea.
 - (c) Propagation of rubber is mainly by bud-grafting.
 - (d) Cultivation of coffee under natural shade offers several advantages.
 - (e) Inter Cropping and Cover Cropping in Cashew Cultivation.
7. What is meant by Integrated Nutrient Management (INM) ? Discuss briefly the INM practices for different spices. 10
8. What is the ideal time for planting tea in the main field ? Describe the planting of tea mentioning the age of plant, planting pit size, planting pit mixture and planting technique. 2+8
9. What are the common pests and diseases of tea ? 10
Also, mention different leaf diseases of tea, their symptoms of infection and control measures.

10. Write an account on the different types of nursery required for the production of planting material of rubber. Also, explain what is bud grafting. 7+3
11. What are the commonly observed diseases of rubber ? Mention the name of the causal organisms, infection symptoms and control measures. 3+7
12. Mention main coffee growing regions of India. Briefly describe the agrotechnology of coffee cultivation. 2+8
13. Discuss the practices of inter-cropping and mixed cropping in coconut cultivation. Mention the importance and technique of soft wood grafting in Cashew. 2+5+3
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