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

**Term-End Examination**

**June, 2011**

**MAM-002 : CROP PRODUCTION TECHNOLOGY**

*Time : 3 hours*

*Maximum Marks : 100*

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

1. (a) Give the correct expansion of the following : 1x5=5
- (i) APEDA
  - (ii) INDOCERT
  - (iii) UPASI
  - (iv) IFOAM
  - (v) NGO
- (b) Mention two examples each of : 1x5=5
- (i) Shade tolerant mixed crops for coconut
  - (ii) Virus disorders in cardamom
  - (iii) Micro nutrients for tea
  - (iv) Shade trees for coffee
  - (v) Cover crops for cashew

2. Distinguish between : 2x5=10
- (a) Arabica coffee and Robusta coffee
  - (b) Training and pruning of coffee
  - (c) Brown budding and green budding in Rubber
  - (d) Green manuring and green leaf manuring in coconut.
  - (e) Single hedge and double hedge contour planting in tea.
3. Comment briefly on the following : 2x5=10
- (a) Organic Agriculture
  - (b) Trap crop in Integrated Pest Management of spices,
  - (c) Branch induction by leaf folding method in Rubber,
  - (d) Desuckering in coffee
  - (e) Scion Bank of cashew
4. Write briefly on the following : 2½x4=10
- (a) Shade requirement for tea in frostprone areas.
  - (b) Instainable coffeas.
  - (c) Clove of commerce.
  - (d) TXD Hybrid coconuts.

5. Give short answers to the following operations / phenomena. 2½x4=10
- (a) Biofertilizers for spice production.
  - (b) Phenomenon Trap for pest management.
  - (c) Whiskering in coffee.
  - (d) Organic manures for rubber nutrition.
6. (a) List out the different cultural operations required to be undertaken after planting, in pepper gardens. Briefly explain how weed management is carried out in pepper. 5
- (b) What are the factors that affect utilization of nutrients in tea? State how do soil factors influence on nutrient utilization. 5
7. (a) Explain briefly aerial spraying in rubber plantations. 5
- (b) Discuss briefly the current approaches to pest management in coffee that effect reduce pesticide residues. 5
8. (a) Name the four climatic parameters that influence the water management aspect of coconut. Give a schedule for drip irrigation for this crop. 5
- (b) Discuss briefly the scope of production of organic cashew in India. 5

9. (a) Briefly explain the different methods of weed control in tea. Mention any two dicot grass weeds and give/state name a common herbicide. 5
- (b) State the IDM concept for spices. Indicate briefly an IDM package for management of Phytophthora foot rot of black pepper. 5
10. Discuss in detail coffee, bush management to maintain the trees in good framework and indicate various operations involved in. 10
11. Name the major fungal diseases of coconut and their causal organisms. State the nature of damage and management practices for bud rot disease. 10
12. Which are the secondary nutrients required by tea for normal growth and production? Discuss briefly the role of Mg (Magnesium) in this and give corrective steps against Mg deficiency in tea. 10
13. Give an account of the different non - parasitic maladies affecting rubber trees in different areas. Suggest suitable corrective/management measures for each. 10