

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

Term-End Examination

December, 2013

MAM-002 : CROP PRODUCTION TECHNOLOGY

Time : 3 hours

Maximum Marks : 100

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

1. (a) Fill up the blanks. 1x5=5
- (i) _____ is a hybrid variety of black pepper.
 - (ii) Fruit of clove is known as _____.
 - (iii) Optimum soil pH for tea culture is _____.
 - (iv) _____ is a category I rubber clone.
 - (v) Initial spacing for cashew under high density planting is _____.
- (b) Define the following : 1x5=5
- (i) Clone
 - (ii) Pollarding
 - (iii) Bush pepper
 - (iv) Mixed cropping
 - (v) Sucker

2. Give two examples for each of the following : 2½x4=10
- (a) Improved varieties of black pepper
 - (b) Types of pruning in tea
 - (c) Commonly used cover crops in rubber plantation
 - (d) Hybrid varieties of coconut
3. What do you mean by the following ?
(answer in 2 - 3 sentences). 2x5=10
- (a) Paddying
 - (b) Rapid multiplication in black pepper
 - (c) Expansion ratio manuring
 - (d) Budded stumps
 - (e) Tea yellows
4. Distinguish between the following : 2x5=10
- (a) Lakshaganga and Anandaganga
 - (b) Intercropping and Covercropping
 - (c) Banji and Fish leaf
 - (d) Green budding and Brown budding
 - (e) Arabica coffee and Robusta coffee
5. Give reasons for the following : 2x5=10
- (a) Vegetative propagation is preferred in nutmeg
 - (b) Tipping is done in tea bush recovering from pruning
 - (c) Rubber is grown as a monocrop
 - (d) In coconut, two third dose of fertilizers is applied during Sept. - Oct.
 - (e) Arabica coffee requires less spacing compared to Robusta coffee

6. Write short notes on **any four** of the following :
- (a) Methods of propagation in black pepper
 - (b) Nutrient deficiency in tea 2½x4=10
 - (c) Agroclimatic requirements of rubber
 - (d) Pruning in coffee
 - (e) Mother palm selection in coconut
 - (f) Top working in cashew
7. Briefly describe the various agro-techniques 10 involved in the establishment and maintenance of a pepper garden.
8. Write an essay on organic production of 10 cardamom.
9. What are the major pests of tea ? Explain the 10 major symptoms of attack and control measures.
10. What are the major diseases of coffee ? Explain 10 the major symptoms of infection and control measures.
11. Describe in detail about the nursery and planting 10 material production in rubber.
12. Write an essay on nutrient management and 10 intercropping in coconut.
13. Give a brief account of the plant protection 10 equipments used in the plantation sector.
-