No. of Printed Pages : 5

## POST GRADUATE DIPLOMA IN PLANTATION MANAGEMENT (PGDPM)

## **Term-End Examination**

## June, 2013 00371

## MAM-003 : POST HARVEST MANAGEMENT AND VALUE ADDITION

Time : 3 hours	Maximum	Marks	: :	100
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Note : Answer any ten questions, all carry equal marks.

1.	(a)	Define the following :	1.25x4=5		
		(i) Geitonogamy in black pepper			
		(ii) Monoecions condition in coconu	.t		
		(iii) Tapping notations for rubber			
		(iv) Monsooned Malabar Coffee			
	(b)	Distinguish between :	1.25x4=5		
		(i) Khoker cloves and Headless clov	es		
		(ii) Crepe rubbers and Reclaimed ru	bber		
		(iii) Panchment coffee and Cherry co	offee		
		(iv) White fibre and Brown fibr	e of		
		coconut			
2.	(a)	State <b>True (T)</b> or <b>False (F)</b> :	1x4=4		
			Quality of tea mainly depends upon		
		the standard of the green leaf.			

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P.T.O.

- (ii) Wet method of coffee processing is mostly used for Robusta coffee.
- (iii) Yield stimulation can be employed on all rubber trees irrespective of yield potential or seasons.
- (iv) CTC method is more popular and efficient than the orthodox method for tea manufacture.
- (b) State briefly what is meant by :  $1\frac{1}{2}x4=6$ 
  - (i) AGMARK (Agri-Marketing)
  - (ii) Fortifid Teas
  - (iii) Tapping Panel Dryness (TPD)
  - (iv) Organic Coffee
- 3. Comment critically on the following : 2x5=10
  - (a) 'Tea as a beverage is good for health', how ?
  - (b) Neutracentical properties of black pepper
  - (c) Intensive tapping in rubber
  - (d) Speciality coffees
  - (e) Coir geo-textiles
- 4. Write briefly on **any four** :

 $2^{1/2}x4=10$ 

- (a) Minimum quality standards for tea.
- (b) Factors influencing tapping efficiency in rubber
- (c) Alleppey Green Cardamom Bold (AGB)
- (d) Cherry coffee dry husk utilization
- (e) Infrastructure for cashew processing

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- 5. Explain briefly the procedure for commercial production of the following :  $2^{1/2}x^{4}=10$ 
  - (a) Cardamom powder
  - (b) Air dried rubber sheet
  - (c) Flavoured coffees
  - (d) Coconut milk/cream
- 6. (a) Discuss briefly the importance of quality for 3 coffee in International market.
  - (b) Explain the steps taken for production and 7 processing of coffee at Estate level.
- Describe the procedure for processing rubber latex 10 in to RSS (Ribbed Smoked Sheets) and state the machinery required for the purpose.
- 8. (a) Describe the harvesting techniques/ 6
  procedure of black pepper and cardamom.
  - (b) State how is freshly harvested cardamom 4 capsules handled before curing.
- (a) Enlist value added products of Tea and State 5 the factors to be considered on value addition.
  - (b) What are the natural products from tea ? 5Mention briefly production and uses of Tea Extract.

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- 10. (a) Define tapping of rubber tree. Write briefly 7 about latex and latex flow and explain the factors influencing tapping efficiency and latex production.
  - (b) List out tapping tools and utensils used in 3 rubber plantations.
- 11. (a) What are the traditional coconut 5 products ? Explain the method of making ball copra.
  - (b) Briefly discuss the characteristic features 5 and uses of coconut oil as a food product and industrial oil.
- 12. State the importance of primary processing in 10 spices. Explain briefly various important aspects of Good Manufacturing Practices (GMP) required to be observed in the primary processing of spices.
- **13.** Write short notes on **any two** : 5x2=10
  - (a) 'Silver Tips Tea'
  - (b) Spices as Neutracenticals
  - (c) Physical properties (Grades) of cashew nut

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- 14. (a) Mention the steps involved in processing of 5 raw cashew nuts in factory and state how raw nuts are handled at processing sites.
  - (b) What is CNSL ? How is this liquid 5 extracted ? State the different uses of CNSL.