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MAM-003

00850

POST GRADUATE DIPLOMA IN PLANTATION MANAGEMENT

Term-End Examination

June, 2010

MAM-003 : POST HARVEST MANAGEMENT AND VALUE ADDITION

Time: 3 hours

Maximum Marks: 100

Note: Attempt any ten questions. All carry equal marks.

1. Distinguish between:

5x2=10

- (a) Small cardamom and Large cardamom,
- (b) 'Macha' (pan) tea and 'Sencha' tea,
- (c) Pale latex crepe and Estate brown crepe,
- (d) Milling copra and ball copra
- (e) Washed coffee and cherry coffee
- **2.** Give short answers in **50** words :

5x2=10

- (a) HACCP standards for quality regulation in spices,
- (b) Harvest index in black pepper for different uses
- (c) 'Kona coffee'
- (d) Tea seed oil
- (e) Coir geo-textiles

P.T.O.

3.	(a)	Mention characteristics and uses of three 5
	(h)	value added products of small cardamom.
	(b)	Define quality of spices. State briefly its 5
		importance and quality regulations in produced spices.
		produced spices.
4.	(a)	Explain briefly Low Frequency Tapping 5
_,	()	(LFT) of rubber. State latex recovery and
		need for yield stimulation in this method.
	(b)	State briefly factors influencing tapping 5
	(-)	efficiency and latex production in rubber.
		,
5.	(a)	Fill in the blanks: 4x1=4
		(i) The best period to open tapping
		channels (panels) on new trees is
		and months
		in India.
		(ii) Generally arabica coffee is produced
		by the process of method.
		(iii) The scientific name of Large
		cardamom is
	(b)	Give name of the following: $3x2=6$
		(i) Two grades of pepper
		(ii) Two hullers for milling cherry coffee
		(iii) Two grades of cashew kernel.
6.	(a)	State <i>True</i> or <i>False</i> : 4x1=4
		(i) Cardamom flowers and sets fruits at
		all elevations.

(ii)	Standards for tapping are identical for seed propagated and budded trees of rubber.	4		
(iii)	In coconut male and female flowers are borne on different inflorescences.			
(iv)	Freshly harvested coffee berries for parchment coffee should be processed immediately.	· · · · · · · · · · · · · · · · · · ·		
State briefly: 3x2				
(i)	Withering percentage of tea leaf.			
(ii)	Virgin coconut oil			
(iii)	CNSL (Cashew nut shell liquid)	S.		
		_		
State briefly scope of value addition in tea- 5 List out five value added products.				
Describe with a cross sectional diagram, 5 features of cashewnut.				
State briefly keeping quality of tea. 5				
Explain briefly the importance of hygiene 5				
in T	ea factory.			
Give a short account of coconut shell 5 products. Give examples.				
Brie	fly state processing and uses of Nutmeg.	5		

(b)

(b)

7. (a)

8. (a)

9. (a)

(b)

(b)

- 10. (a) Describe briefly the role and function of packaging in quality maintenance of cashew.
 - (b) Discuss the impacts of storage over long periods of rubber products and indicate physical and chemical changes.
- 11. What are Malabar coffees? Name any three Indian speciality coffees and briefly describe processing of monsooned Malabar coffees.
- 12. Discuss the need for product diversification and value addition in coconut. Give a few examples and explain method of preparation of dessicated coconut and Nata-de-coco.
- 13. Briefly describe the major reactions/reasons for quality deterioration of cashew kernels. List out quality improvement programmes for maintenance of kernel quality.
- 14. Write short notes on any two:

- 10
- (a) Low Frequency Tapping (LFT)
- (b) Value addition in spices
- (c) Quality parameters of Black tea.