Maximum Marks: 100

P.T.O.

Time: 3 hours

MAM-003

POST GRADUATE DIPLOMA IN PLANTATION MANAGEMENT (PGDPM)

Term-End Examination December, 2012

MAM-003 : POST HARVEST MANAGEMENT AND VALUE ADDITION

Not		nswer iarks.	any ten questions. All questions ca	rry equal
1.	(a)	Defi:	ne the following :	1x5=5
		(i)	Withering percent in Tea;	
		(ii)	Spice Adultarants;	
		(iii)	Speciality coffees in the global cont	ext;
		(iv)	Rubber tapping;	
		(v)	Rubbery copra.	
	(b)	Fill i	n the blanks :	1x5=5
		(i)	is the world's larg	gest
		,,	producer and consumer commercial tea.	of
		(ii)	Flowering and fertilisation in bl pepper normally start in the month	
		(iii)	The chemical name of Ethepon uses stimulant is	sed

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		(iv)	The average yield of cardamom in			
		(v)	Kerala is kg/ha. As per gillus group of fungi produce a toxic product called			
2.	What effect/function does each of the following					
	bring about? 5x2					
	(a)	Drying of fermented leaves in CTC tea manufacture.				
	(b)	Cryogrinding of black pepper for value addition.				
	(c)	Intensive tapping in rubber plantations.				
	(d)		ditioning of dried parchment coffee.			
	(e)	Seas	oning of harvested coconuts.			
3.	Comment briefly on the following :					
	(a)	Indi	an spice Logo and Spice House			
		Cert	ificate. $5x2=10$			
	(b)	TF: 7	ΓR Ratio for black tea.			
	(c)	"Hea	at is the energy of tea quality." Why?			
	(d)	Gree	en Book Guide lines.			
	(e)	W 24	40 Grade cashew kernel.			
4.	Write briefly on : $4x2\frac{1}{2}$ =					
	(a)	Micr	obial contamination of spices.			
	(b)	Spec	iality coffees.			
	(c)	Crop	collection in rubber.			
	(d)	Ball	copra making.			
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- 5. (a) Mention the proper climatic and field 3 elevation requirements for optimum growth of small cardamom?
 - (b) State the stage of harvest of black pepper 3 for production of white pepper and canned pepper.
 - (c) Briefly state the Quality Regulations in 4
 Primary Processed Spices and HACCP
 standards.
- 6. Write short Notes on *any two*: 2x5=10
 - (a) On farm Processing of coffee berries.
 - (b) Rain guarding in Rubber.
 - (c) Coconut Trading.
- 7. (a) Discuss the role and need for value addition with special reference to spices. 2x5=10
 - (b) Enlist the value added products of small cardamom and explain how cardamom oil is prepared commercially.
- 8. (a) Describe in detail how is tea produced by CTC method, graded, stored and packed? 7+3=10
 - (b) State the factors influencing keeping quality of tea.
- 9. Explain briefly how ripe coffee berries are 10 prepared for wet processing for Parchment coffee. Give a flow chart of different stages of wet processing.

(a) Mention the different factors involved in 3 10. quality deterioration of cashew kernels. (b) List out the improvement programmes 3 employed, for quality maintenance of processed kernels. State the process of packaging of processed (c) 4 cashew kernels. Discuss the impacts of storage of processed rubber 11. 10 over long period. Briefly explain the optimum conditions and method of storage for sheet and crepe rubbers. 5 12. (a) What are the products from coconut shell? And state the important uses of any one product. (b) How is toddy and Neera produced from 5 coconut? Mention the composition toddy and state it uses. (a) Explain briefly the qualitative aspects of raw 13. 5 cashew nuts for processing. List out the general criteria for selecting good rawnuts and explain any one test employed in the processing factory. Enumerate the major by products from (b)

cashew and state of uses of CNSL.

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