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

Term-End Examination

December, 2017

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

Time : 3 hours

Maximum Marks : 100

*Note : (i) Answer 10 Questions, all carry equal marks
(ii) Questions 01 (one) is compulsory.*

1. (a) Give the correct expansion of the following : 5x1=5
- (i) HACCP
 - (ii) RTD Tea
 - (iii) RSS Rubber
 - (iv) CFTRI Mysore
 - (v) SW kernels of cashew
- (b) State True or False : 5x1=5
- (i) Average annual pepper yield in India is very low compared to other countries.
 - (ii) Tappable age (standard) is identical for both seedling and budded Rubber trees.
 - (iii) Silver tips teas are manufactured just as CTC Teas.
 - (iv) Clean coffee and raw coffee are packed in odour free jute bags.

- (v) There is urgent need to improve processing and product diversification in coconut that can provide more rural employment.
2. (a) Distinguish between : 2x3=6
- (i) White pepper Vs Black pepper.
 - (ii) Pan tea Vs Sencha tea.
 - (iii) Plantation coffee (Washed) Vs Cherry coffee.
- (b) Name the following : 1x4=4
- (i) Pollinating agent in Cardamom.
 - (ii) Most popular preservative of field latex.
 - (iii) World's largest producer and consumer of black tea.
 - (iv) Most important up country market for coconut oil in India.
3. Name **two** value added products of the following : 2x5=10
- (a) Green pepper
 - (b) Tea
 - (c) Indian Speciality coffees
 - (d) Coconut Kernel
 - (e) Crepe Rubbers
4. Give brief answers to the following
(Any four) : 2.5x4=10
- (a) Post harvest handling of Nutmeg fruits
 - (b) TF:TR Ratio and Tea quality
 - (c) Rubber tapping notation d₂bd17
 - (d) Garbling (sorting) of coffee beans
 - (e) Coir geo textiles
 - (f) Infrastructure for cashew nut processing

5. (a) How is grading of the processed cardamom done ? Mention *three* specifications for Indian cardamom - and indicate an important grade available in the market. 5
- (b) Describe natural products from Tea. 5
6. (a) Define Rubber tapping. Discuss the factors influencing tapping efficiency and latex production. 5
- (b) What are speciality coffees ? State briefly the production requirements of speciality coffees. 5
7. (a) Mention four by products from coconut How is coir pith effectively utilized ? 5
- (b) List any four cashew apple products. State the uses of cashew nut shell Liquid (CCSNL) and testa in Industry. 5
8. (a) State what types of adulteration feasible in the following processed products ? $2 \times 2 = 4$
 (i) clove (ii) cashew
- (b) Write what do you know about the following : $2 \times 3 = 6$
 (i) Intensive tapping in Rubber.
 (ii) Aspiration in coffee mills.
9. Write short notes on the following : $2 \times 5 = 10$
 (a) Value addition in cashew kernels.
 (b) Pollution Management in Rubber processing.
10. Discuss the present status of product diversification of spices in India and state the need for value addition for quality products that can compete in global markets. 10

11. State the various stages in production of smoked Rubber sheet with simple machinery, as low cost, in small holders' Estates. 10
 12. Explain Rolling in CTC tea manufacture. Outline the working principle of any one type of Rollers and the mechanism involved. Indicate the importance of temperature control during rolling of tea. 10
 13. Discuss the concept and beneficial effects of post harvest processing and product diversification in coconut. Mention five value added products and explain method of manufacture of *one* among them. 10
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