

2025 II 24

0930

Seat No.

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Time : 2 Hours

COMMERCIAL CROPS

Subject Code

V	4	2	9	4
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Total No. of Questions : 23 (Printed Pages : 4)

Maximum Marks : 50

- INSTRUCTIONS :**
- (i) There are *four* sections in the question paper (A, B, C & D) consisting of **23** questions.
 - (ii) Figures to the right indicate marks allotted to each question.
 - (iii) Write the number of each question clearly on the answer-book.
 - (iv) In section 'A' there are *eight* questions of which question numbers **1** to **4** are multiple choice questions and question numbers **5** to **8** are to be answered in *one* or *two* sentences each.
 - (v) Attempt *all* the questions. However, internal choice is given for question numbers **20** and **23**.

SECTION A

1. The most important trade forms of arecanut in which ripened nutes are dried in the sun for 35-40 days are known as 1
- Chali
 - Scented Supari
 - Kalipak
 - Coloured Supari

2. The planting system followed in commercial cultivation of Oil Palm is 1
- Square
 - Rectangular
 - Adjacent
 - Triangular
3. The development of the attractive yellow colour, aroma in turmeric rhizomes is due to pigment. 1
- Curcumin
 - Chlorophyll
 - Anthocyanin
 - Zanthophyll
4. Periodical pruning of dead wood and criss-cross branches of cashew during the month of July is recommended to minimize the losses through diseases 1
- Powder mildew
 - Anthracnose
 - Die back
 - Leaf roll
5. Name the food material which is preserved by using sun drying method. 1
6. State the uses of 'Kokum'. 1
7. How is harvesting and processing carried out in 'Cinnamon' ? 1
8. Name *two* products extracted from '*Myristica fragrance*'. 1

SECTION B

9. What is 'Pickling' ? Enlist the precautions to be taken while preparing pickle. 2
10. Define 'Jam'. How much sugar is added to prepare jam from 1 kg pineapple slices ? 2
11. Explain the following Post-Harvest techniques : 2
- (i) Air-cooling
 - (ii) Hydro-cooling.
12. State any *four* advantages of corrugated fibre board boxes as packing material for fruits. 2
13. Write a short note on propagation in 'Black Pepper'. 2
14. What do you mean by 'Carbonation' ? Give an example of carbonated product. 2

SECTION C

15. Calculate the cost for raising 1 Ha Mango plantation based on the following : 3
- (i) Spacing 9 m × 9 m
 - (ii) Cost of mango graft @ Rs. 210/- per graft
 - (iii) Cost of digging and re-filling of pit @ Rs. 75/- per pit
 - (iv) Cost of making shade @ Rs. 30/- per plant.
16. Write the flow chart of process of Sweet Mango Chutney. 3
17. Write the objectives of training and pruning in cashew. 3

18. Explain the scope and importance of Post-Harvest Technology of fruits, vegetables and nuts. 3
19. With suitable diagram explain the 'Cold Storage' method of preservation of fruits and vegetables. 3
20. Briefly explain Nursery techniques in arecanut. 3

Or

20. Write the symptoms and management of Koleroga in arecanut.

SECTION D

21. Explain construction and working of 'Zero Energy Chamber' for short term storage of vegetables and fruits. 4
22. Explain stone grafting in mango with reference to : 4
- (i) Raising of root stock.
- (ii) Selection of scion stick and grafting.
23. List out the characteristics of good coconut mother palm. 4

Or

23. Explain the commercial cultivation of coconut with reference to :
- (i) Pit size and spacing
- (ii) Control of Rhinoceros beetle
- (iii) Irrigation.