

C-1087

Sub. Code

98031

DIPLOMA EXAMINATION, NOVEMBER 2023.

Third Semester

Horticulture

VEGETABLE CROPS PRODUCTION TECHNOLOGY

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Gardening
2. Write notes on truck garden
3. Protray nursery
4. Define sorting
5. Notes on plant growth regulators
6. Define special horticultural
7. Why irrigation Important?
8. Pruning
9. Harvesting of vegetable production
10. Cluster beans

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write short notes on Scope and importance of vegetable cultivation.

Or

- (b) Briefly explain about Market garden and its importance.

12. (a) Write down the season, soil and climate, planting, irrigation and harvesting of Bhendi.

Or

- (b) Give a detailed account of varieties and cultivation of vegetables snake gourds.

13. (a) Write short notes on grading sorting and packing of vegetable pumpkin.

Or

- (b) Give a detailed account of and cultivation of Yams. Mention packing and storage.

14. (a) Write short notes on uses of plant growth regulators.

Or

- (b) Explain detailed account of cultivation of Beet root and Radish in India.

15. (a) List out the importance vegetables grown in landscape garden in Tamil Nadu.

Or

- (b) Write short notes on manuring and irrigation of vegetable crops Peas and Beans.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss the different system of vegetable cultivation and production in Tamil Nadu.

Or

- (b) Describe the about systems of vegetable cultivation.

17. (a) Describe the cultural methods of Brinjal and Onion you have studied in your class.

Or

- (b) Discuss the cultural aspects of vegetables Tapioca and Water melon.

18. (a) What is vegetable growing? Explain various purposes for which vegetables have been cultivated.

Or

- (b) Describe the cultivation, packing and storage of Moringa and Amaranthus.

C-1088

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98032

DIPLOMA EXAMINATION, NOVEMBER 2023.

Third Semester

Horticulture

FLOWER CROPS PRODUCTION TECHNOLOGY

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define floriculture.
2. Notes on Rose garden.
3. What are the commercial flowers?
4. Crop duration of Chrysanthemum.
5. How is the carnation flower cultivated?
6. Uses of Orchids.
7. Floral concrete.
8. Notes on Anthurium.
9. Bouquets.
10. Define floral decoration.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write short notes on cultural requirements of Rose.

Or

- (b) Give an account on scope and importance of commercial flowers.

12. (a) Write short on propagation, cultivation and protection of Marigold grown in Tamil Nadu.

Or

- (b) Write an account of cultivation of Jasmine.

13. (a) Briefly explain about pigment and dye extraction of loose flowers.

Or

- (b) Give an account on cut flower production of Rose.

14. (a) Explain in detail the various types' cut flower production of Orchids.

Or

- (b) Give an account on packing and marketing of flowers.

15. (a) Explain various methods available for the post harvesting management of cut flowers.

Or

- (b) Write short notes on method of preparation of bouquets with cut flower and the uses.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write an essay on propagation, cultural requirements of Jasmine and Rose.

Or

- (b) Describe the propagation, cultivation of commercial flowers tuberose and Crossandra.

17. (a) Write an essay on cut flower production Orchids and Rose.

Or

- (b) Discuss the pigment and dye extraction from Liliun and Heloconia.

18. (a) Describe the floral decorations, bouquets and dry flowers.

Or

- (b) Write an essay on post harvesting management of cut flowers.
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C-1089

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98033

DIPLOMA EXAMINATION, NOVEMBER 2023

Third Semester

Horticulture

SPICE CROPS PRODUCTION TECHNOLOGY

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define scope of spices cultivation.
2. What is the scientific name of pepper plants?
3. What is turmeric and its uses?
4. What are the most common uses for cloves?
5. List out the propagation methods for tamarind.
6. Write the medicinal uses of curry leaf.
7. What is fenugreek and its uses?
8. List out any four varieties of paprika spices in Tamil Nadu.
9. What is GAP method for agriculture?
10. Define value addition in spice crops.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain about the scope and importance of spices.

Or

- (b) Explain in detail about the varieties of cardamom cultivating in Tamil Nadu.

12. (a) Explain in detail about the processing methods of turmeric plantation.

Or

- (b) Write short notes on the cultural practices for ginger plantation.

13. (a) Explain the about the field preparation and sowing in coriander cultivation.

Or

- (b) Briefly discuss about the cultural practices of curry leaf.

14. (a) Briefly discuss about the post-harvest processing of seed of fenugreek spices.

Or

- (b) What is the method of cultivation and collection of fennel?

15. (a) Discuss about the GAP in spice production.

Or

- (b) Discuss about the value addition in spices crops.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in details about the production and productivity of spices plantation in Tamil Nadu.

Or

- (b) Write a detailed account on cultural practices, harvesting methods and processing of pepper Spice plantation.

17. (a) Briefly discuss about the harvesting methods and processing of clove spice plantation.

Or

- (b) Explain in details about the cultural practice, harvesting methods and processing of tamarind Spice plantation.

18. (a) Briefly discuss about the harvesting methods and processing of paprika spice plantation.

Or

- (b) Explain in details about the good agricultural practices in spices production in Tamil Nadu.

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Sub. Code

98034

DIPLOMA EXAMINATION, NOVEMBER 2023.

Third Semester

Horticulture

**PESTS OF HORTICULTURAL CROPS AND
THEIR MANAGEMENT**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define pest.
2. Significance of quarantine.
3. Mite damage symptoms in vegetables.
4. Role of the stone weevil in crops.
5. Write down any two medicinal plant-chewing insects.
6. Define fruit-borer.
7. How can we determine whether there are insect pests in warehouses?
8. Common warehouse pest in India.
9. Write about the chemical control of nematodes.
10. Give any two cultural methods of nematode management.

Part B

(5 × 5 = 25)

Answer **all** the questions

11. (a) Narrate the principles and components of natural enemies in pest suppression.

Or

- (b) Explain the reasons behind pest disease epidemics.

12. (a) Clarify the types of chewing insects and its affect.

Or

- (b) Describe the numerous effective management techniques for controlling sap-feeding insect pests on fruits and vegetables.

13. (a) Explain the suitable management techniques for controlling fruit-borer insect medicinal plants.

Or

- (b) Describe how to handle insect pests to get rid of chewing insects on medicinal plants.

14. (a) Write the pest control procedures for warehouses.

Or

- (b) Generate the pest control regulations for polyhouses.

15. (a) Write down the plant-damaging nematode symptoms.

Or

- (b) Explain the management strategies of plant parasitic nematodes.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Enumerate the categories of pests and causes of disease outbreaks.

Or

- (b) Explain the principles and components of insect pest management.
17. (a) Describe how fruit borer is managed holistically in essential crops, fruits and spices.

Or

- (b) Explain how to manage stem borer effectively vital vegetables, fruits, and spices.
18. (a) Provide a detailed overview of special pest management strategies in warehousing.

Or

- (b) Explain the specific pest management techniques used in greenhouses.
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C-1091

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98035

DIPLOMA EXAMINATION, NOVEMBER 2023.

Third Semester

Horticulture

**DISEASES OF HORTICULTURAL CROPS AND THEIR
MANAGEMENT**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Name two mango fungus symptoms.
2. Causal organism of Anthracnose.
3. Briefly describe the Bean's powdery mildew.
4. What exactly is Sweet potato bacterial wilt?
5. List any two fungi that caused the Tomato wilt disease.
6. Write any two management strategies of Cardamom.
7. Suggested two management strategies to combat the fungal disease of Tea.
8. Briefly describe about the black spots of rose leaves.
9. Symptoms of *Aloe* rust.
10. Signs of overwatering in Coleus plants.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Describe the causes, signs, and effective treatment for bacterial and fungal illnesses of Citrus.

Or

- (b) Explain the etiology, symptoms and control management of viral and fungal diseases of Apple.

12. (a) Describe in detail the Potato's illnesses and management strategies.

Or

- (b) Explain in detail about the diseases and management strategies of Bhendi.

13. (a) Describe the cultivation techniques of *Agaricus*.

Or

- (b) Provide a detailed explanation of the Onion's illnesses and control plans.

14. (a) Give a thorough explanation of the Cocoa's diseases and management techniques.

Or

- (b) Discuss the various diseases of Jasmine and the combined management.

15. (a) Explain about the *Solanum nigrum* and disease prevention measures.

Or

- (b) Discuss *Withania somnifera* and disease management strategies.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Causative agents, symptoms, and effective management of horticultural crops – Mango and Banana.

Or

- (b) Effective management of severe bacterial, fungal, and viral infections in Pomegranates and Pineapple.
17. (a) Write a critical essay on the effective management of the Tomato and Brinjal crops in agriculture.

Or

- (b) Discuss in detail about appropriate management of horticultural crops of Turmeric and Pepper.
18. (a) Explain the etiology, signs and integrated management of significant crops of Rubber and Coconut.

Or

- (b) Provide a detailed overview of efficient management of medicinal crops of *Gloriosa* and *Senna*.
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