

C-6880

Sub. Code

98021

DIPLOMA EXAMINATION, APRIL 2022

Second Semester

Horticulture

FRUIT CROPS PRODUCTION TECHNOLOGY

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Organic mulch
2. Crop regulation
3. Viticulture
4. Hill banana varieties
5. Multi tier cropping system with mandarin
6. Acid lime varieties released from TNAU
7. Propagation in Apple
8. Value added products of pear
9. Pancha Kavya
10. Good Agricultural Practices

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Subtropical fruits grown in Tamilnadu.
Or
(b) Physical features of orchard.

12. (a) Alternate Bearing in Mango.

Or

(b) Harvesting in grapes.

13. (a) Propagation in Pineapple.

Or

(b) Pollination in Avocado.

14. (a) Benefits of Good Agricultural Practices.

Or

(b) Challenges in Good Agricultural Practices.

15. (a) Organic Certification.

Or

(b) Insect Management in organic fruit production.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail on the various PGR's and use of plant growth regulators in fruit crops.

Or

(b) Discuss in detail on the important features of establishing an orchard.

17. (a) Discuss the production technology of Banana.

Or

(b) Discuss the production technology of Guava.

18. (a) Discuss the organic fruit productions with standards and Certifying Agencies.

Or

- (b) Discuss the production technology of Avocado.
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C-6881

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98022

DIPLOMA EXAMINATION, APRIL 2022

Second Semester

Horticulture

DRY LAND HORTICULTURE

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Expand CIAH and where it is located
2. Under exploited fruits
3. Umran
4. Varieties of Custard Apple
5. Uses of Bael
6. Spacing in wood apple
7. Alkaloid Present in periwinkle
8. Pusa Navbahar
9. Economic part of Vetiver
10. Scientific name of Senna

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Present Area and production of Dryland fruits in India and Tamilnadu.

Or

- (b) Dryland regions of India and Tamilnadu.

12. (a) Varieties of Aonla.

Or

- (b) Crop regulation in Pomegranate.

13. (a) Propagation in Bael.

Or

- (b) Uses of Jamun.

14. (a) Seed rate for Senna.

Or

- (b) Seed rate for cluster bean.

15. (a) Spacing in Vetiver.

Or

- (b) Propagation in Palma Rosa.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail on the production technology of custard apple.

Or

- (b) Discuss in detail on the production technology of Pomegranate.

17. (a) Discuss in detail on the cultural practices followed in Jamun.

Or

(b) Discuss in detail on the cultural practices followed in Manila tamarind.

18. (a) Discuss in detail the method of oil extraction in Palma Rosa.

Or

(b) Discuss in detail the production technology of vetiver.

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98023

DIPLOMA EXAMINATION, APRIL 2022

Second Semester

Horticulture

**BASICS OF ORNAMENTAL GARDENING AND
LANDSCAPING**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define formal garden.
2. Give examples for two edge plants.
3. Name two plants suitable for topiary.
4. Name two flowering annuals.
5. Name two flowering trees suitable for avenue planting.
6. Name two climber plants.
7. Name two plants suitable for rockeries.
8. Name two lawn grasses.
9. Name two palms.
10. Name two plants suitable for sunken garden.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Differentiate formal and informal gardens.
- Or
- (b) Differentiate Arches and Pergolas.
12. (a) Write brief note on cacti and succulents with examples.
- Or
- (b) What are the maintenance operations in residential complex garden?
13. (a) Write brief note on palms and cycads with example.
- Or
- (b) Write in brief about institutional garden.
14. (a) List the maintenance operations followed in highways garden.
- Or
- (b) What are the important features of airport gardens?
15. (a) List the maintenance problems in garden lawns.
- Or
- (b) Write brief note on important lawn grasses.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about the plant components of garden with suitable examples.
- Or
- (b) Write the importance of non-plant components of a garden.

17. (a) Describe about following special types of gardens

(i) Sunken garden and

(ii) Root garden.

Or

(b) Write in detail about establishment and maintenance of Public gardens.

18. (a) Write in detail about establishment and maintenance of lawn.

Or

(b) Describe in detail about all maintenance operations pertaining to landscape gardening.

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98024

DIPLOMA EXAMINATION, APRIL 2022.

Second Semester

Horticulture

**MEDICINAL AND AROMATIC CROPS PRODUCTION
TECHNOLOGY**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write the botanical name of glory lily.
2. Which part of medicinal coleus is medicinally useful.
3. How periwinkle is propagated?
4. Write the botanical name of senna.
5. How ashwagandha is propagated?
6. Write the Economically important part of kalmegh.
7. Write the essential oil content of lemon grass.
8. Write the medicinal uses of Aloe vera.
9. What is the economic part of vetiver plant.
10. How palmarosa is propagated?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Write about the propagation method and quantity of propagation material required for lae Glori lily.

Or

- (b) Write notes on harvesting and processing practices for periwinkle.

12. (a) What are the major medicinal plants grown in Tamilnadu.

Or

- (b) Define aromatic plants with examples.

13. (a) Write about the harvesting and processing practices of Alovera.

Or

- (b) What are the inter cultural practices followed in Gymnema cultivation.

14. (a) Write the medicinal uses of stevia.

Or

- (b) How to extant essential oil from lemon grass.

15. (a) What are the processed products from vetiver?

Or

- (b) Write short notes on soured and sweet basil.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write the scope and importance of medical plant cultivation in Tamilnadu.

Or

- (b) Write in detail about the medicinal coleus cultivation.

17. (a) Write the cultivation practices of senna.

Or

(b) Write the cultivation practices of Ashwagandha.

18. (a) Write the cultivation and processing practices of palmarosa.

Or

(b) Discuss in detail about the contract farming and good agricultural practices in medicinal plant production.

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98025

DIPLOMA EXAMINATION, APRIL 2022.

Second Semester

Horticulture

**IRRIGATION AND WEED MANAGEMENT IN
HORTICULTURAL CROPS**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write a critical stage of water requirement for brinjal.
2. Name an irrigation method suitable for transplanted vegetable crop.
3. Name the improved irrigation method suitable for fruit trees.
4. Name two dicot weeds.
5. Define weed.
6. Name one mechanical weed control method.
7. Name a post-emergence herbicide.
8. Name a herbicide suitable for use in coconut Orchard.
9. Name two most common weeds found in Orchards.
10. Name a parasitic weed found in fruit trees.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) How to improve water use efficiency?
Or
(b) What are the major sources of irrigation.
12. (a) Write the critical stages of water requirement in major horticultural crops.
Or
(b) How to manage poor quality irrigation water?
13. (a) What are the merits and demerits of mechanical weed control methods?
Or
(b) Write the importance of weed control in crop production.
14. (a) Classify the herbicides based on methods of application.
Or
(b) Write a note on pre-emergence herbicide.
15. (a) Briefly write about aquatic weeds.
Or
(b) How to control parasitic weeds in fruit trees.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss in detail about improving water use efficiency and irrigation water use efficiency.
Or
(b) Discuss in detail about the irrigation methods and their advantages.

17. (a) Write the advantages and demerits of different weed control methods.

Or

(b) Discuss in detail about the weed management practices suitable for major horticultural crops.

18. (a) Discuss in detail about management of waste land weeds and problematic weeds.

Or

(b) Discuss in detail about the integrated weed management practices suitable for Orchards.
