

C-9000

Sub. Code

98041

DIPLOMA EXAMINATION, APRIL 2023.

Fourth Semester

Horticulture

PLANTATION CROPS PRODUCTION TECHNOLOGY

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Explain fermentation in tea.
2. Define peaberry.
3. Rubber tapping.
4. Explain cocoa butter.
5. Types of branching in cashew.
6. Propagation of coconut.
7. Varieties of arecanut.
8. Oilpalm cultivars.
9. Processed products of palmyrah.
10. Training practices in tea.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Propagation techniques of tea.

Or

(b) Propagation techniques of coffee.

12. (a) Shade regulation in tea.

Or

(b) Shade management in coffee.

13. (a) Types of shoots in cocoa.

Or

(b) Propagation of cashew.

14. (a) Button shedding in coconut.

Or

(b) Processing of arecanut.

15. (a) Oilpalm types of processing.

Or

(b) Processing of palmyrah.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Production technology and processing of tea.

Or

(b) Production technology and processing of coffee.

17. (a) Production technology and processing of cocoa.

Or

(b) Production technology and processing of cashew nut.

18. (a) Production technology of oilpalm.

Or

(b) Production technology of coconut.

C-9001

Sub. Code

98042

DIPLOMA EXAMINATION, APRIL 2023

Fourth Semester

Horticulture

**SEED PRODUCTION TECHNOLOGY OF
HORTICULTURAL CROPS**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is an embryo?
2. What is polyembryoni?
3. What is hybrid?
4. Steps in Hybridization.
5. Stratification.
6. Isolation distance.
7. Roughing in seed production.
8. Steckling in cole crops
9. What is seed act?
10. What is seed testing?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Importance of seed.

Or

(b) Difference between variety and hybrid.

12. (a) Pre and post harvest techniques in seed.

Or

(b) Seed treatment techniques in horticultural crops.

13. (a) Steps involved in seed production.

Or

(b) Steps involved in hybrid seed production.

14. (a) Types of seed dormancy with examples.

Or

(b) Rules of seed act.

15. (a) Seed production in self pollinated crops.

Or

(b) Seed production in cross pollinated crops.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Write in detail about the seed production techniques of tomato.

Or

- (b) Write in detail about the seed production technology of Bitter gourd.

17. (a) Write in detailed account on seed production technology of cabbage.

Or

- (b) Write in detail about the seed production technology of coriander.

18. (a) Write in detail about the seed production technology of marigold.

Or

- (b) Write in detail about the seed production technology of ashwagandha.
-

C-9002

Sub. Code

98043

DIPLOMA EXAMINATION, APRIL 2023

Fourth Semester

Horticulture

**POST HARVEST HANDLING AND VALUE ADDITION
OF HORTICULTURAL CROPS**

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is grading in fruits and vegetables.
2. What is Maturity indices?
3. Write about the use of wax in fruit preservation.
4. Define climacteric fruits with examples.
5. What is physiological maturity?
6. Define packaging.
7. What is cold chain?
8. Write about fermented beverages.
9. Define value addition with examples.
10. Expand and write about ZECC.

Part B

(5 × 5 = 25)

Answer **all** questions

11. (a) What are reasons of post harvest losses of Horticultural crops.

Or

- (b) On the technologies for minimizing the losses.

12. (a) On the changes happening during fruit ripening.

Or

- (b) Role of chemicals in fruit ripening.

13. (a) On the packing materials used in Horticultural crops.

Or

- (b) On the factors affecting ripening of fruits.

14. On the steps involved in preparation of

- (a) sauce

Or

- (b) Ketchup

15. (a) On the quality control standards of Horticultural crops.

Or

- (b) Explain the Role of Government organisations in India for maintaining the quality standards of fruits and vegetables.

Part C

(3 × 10 = 30)

Answer **all** the questions.

16. (a) Discuss in detail on the changes during fruit ripening.

Or

- (b) Write the scope and importance of PHT in Horticultural crops.

17. (a) Factors responsible for Deterioration of Harvested fruits and vegetables.

Or

- (b) Explain the factors responsible for the quality on post harvest life on horticultural crops.

18. (a) Appraise the recent technologies adopted extending the shelf life of flowers.

Or

- (b) Write about the principles and methods of value addition in fruits and vegetables.

C-9003

Sub. Code

98044

DIPLOMA EXAMINATION, APRIL 2023.

Fourth Semester

Horticulture

FARM MANAGEMENT AND MARKETING

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Present value
2. Farm management
3. Partial budget
4. Farm planning
5. Risk
6. Uncertainty
7. Perfect competition
8. Demand
9. Grading
10. Market intelligence

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Law of Equi-marginal returns.

Or

- (b) Time comparison principle.

12. (a) Characteristics of a good farm plan.

Or

- (b) Types of farm budgets.

13. (a) Sources of risk and uncertainty.

Or

- (b) Methods of reducing risks.

14. (a) Classification of market structure.

Or

- (b) Characteristics of agricultural commodities.

15. (a) Role of regulated markets.

Or

- (b) Importance of market information.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain principle of factor substitution.

Or

- (b) Explain in detail about principle of product substitution.

17. (a) Write an essay on meaning and types of farm budget.

Or

(b) Scope of agricultural marketing.

18. (a) Explain in detail about marketing functions.

Or

(b) Write an essay on cooperative marketing societies.

C-9004

Sub. Code

98045

DIPLOMA EXAMINATION, APRIL 2023

Fourth Semester

Horticulture

FUNDAMENTALS OF EXTENSION EDUCATION

(2020 onwards)

Duration : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Agricultural extension.
2. Define Communication.
3. Define Diffusion.
4. Define Adoption.
5. Define Extension methods.
6. Define Audio visual aids.
7. Define farm journalism.
8. Define Internet.
9. Define farm and Home visit.
10. Define method demonstration.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain various principles of extension.

Or

(b) Explain scope of agricultural extension.

12. (a) Enumerate the elements of teaching learning process.

Or

(b) Enumerate the elements of communication.

13. (a) Explain various stages of adoption process.

Or

(b) Explain barriers of communication.

14. (a) Write in detail about individual contact methods with the advantages and disadvantages.

Or

(b) Explain farm publications.

15. (a) Explain Kissan call centre.

Or

(b) Write in detail about photography.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about various models of communication.

Or

- (b) Discuss in detail about adopter categories and their characteristics.

17. (a) Classify audio-visual aids and explain the criteria for selection of audio-visual aids.

Or

- (b) Explain in detail about mass contact methods.

18. (a) Discuss participatory rural appraisal techniques.

Or

- (b) Discuss in detail about information and communication technology and its role in extension education.
-