

Second Year

CROP PRODUCTION & MANAGEMENT**Second Year (P.C. 105/71)****Subject : Management of Field and Commercial Crops****Paper - I****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Write about the observed varietal characters of rice.
2. Write about the observed varietal characters of Ground nut.
3. Write about the observed varietal characters of cotton.
4. How can you use the Imidacloprid treatment for sucking pests.
5. Prepare different nurseries in Rice.
6. Write pests and their control observed in Rice crop.

Section - II**1 x 8 = 8 Marks**

7. Prepare seed bed SRI rice nursery.
8. How to apply the following Herbicides to the given crops.
 - (a) Atrazine for cereal crops
 - (b) Pendimethalin for oil seed crops
9. Write the fertilizer management practiced in scientific way for paddy and maize crops.
10. Identify the diseases of Rice and write their control methods.
11. What are the major pests and disease observed in cotton and write control measures.
12. Write the using methods of tobacco followed at farmer level.

Section - III**2 x 4 = 8 Marks**

13. (a) Chloripyriphos seed treatment ground nut
(b) Rhizobium seed treatment in Legumes.
14. (a) Fungicide treatment for seed

- (b) Fertilizer dosage for sugarcane
- 15. (a) Fertilizer calculation for treatment
 - (b) Fertilizers dosage for ground nut
- 16. (a) Inter-cultivation operations in Rice
 - (b) Topping and De-suckering in tobacco
- 17. (a) Nitrogen and Zn deficiency symptoms of rice crop
 - (b) Rhizobium treatment for legume crops.
- 18. (a) NPK deficiency symptoms in cotton
 - (b) List out diseases and pests in sugar cane

Section - IV**2 x 4 = 8 Marks**

- 19. (a) Aim and uses of thinning operation
 - (b) Write the recommended spacing and seed rate for cotton
- 20. (a) Write the recommended seed rate, spacing and plot preparation in maize.
 - (b) Fertilizer management in cotton crop
- 21. (a) Jaggary preparation
 - (b) Seed rate and spacing in Jowar
- 22. (a) Gypsum application in ground nut
 - (b) General methods of planning in sugar cane.
- 23. (a) Water management in Rice
 - (b) Water management in ground nut.
- 24. (a) Seed rate and spacing in Rice
 - (b) Seed rate and spacing in castor.

Section - V**4 x 2 = 8 Marks**

- 25. (a) Jowar
 - (b) Maize
 - (c) Red gram

- (d) Bajra
26. (a) Rice
(b) Bengal gram
(c) Ground nut
(d) Cotton
27. (a) Ragi
(b) Black gram
(c) Sugar cane
(d) Mestha
28. (a) Bajra
(b) Sesamum
(c) Sugar cane
(d) Tobacco
29. (a) Maize
(b) Bengal gram
(c) Black gram
(d) Bajra
30. (a) Cotton
(b) Maize
(c) Rice
(d) Ground nut

Section - VI

Viva and Herbarium (Disease, pests, and Deficiency symptoms)

5 Marks

Record

5 Marks

CROP PRODUCTION & MANAGEMENT**Second Year****MODEL QUESTION PAPER****Subject : Management of Field and Commercial Crops****Paper - I****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

6. Write pests damage and their control measures observed in Rice Crop.

Section - II**1 x 8 = 8 Marks**

9. Write the Fertilizer management practiced in scientific way for rice and maize crop.

Section - III**2 x 4 = 8 Marks**

16. (a) Intercultivator operation in rice
(b) Topping and De-suckering in Tobacco

Section - IV**2 x 4 = 8 Marks**

21. (a) Jaggary preparatio in sugar cane
(b) Seed rate and spacing in Jowar

Section - V**4 x 2 = 8 Marks**

29. (a) Maize (b) Bengal gram
(c) Black gram (d) Bajra

Section - VI

Viva and Herbarium (Pest and Disease Symptoms) **5 Marks**

Record **5 Marks**

Note : The Serial numbers of the questions mentioned above are the serial numbers in question bank. In practical examianation only the serial number of the questions will be given, the examiner shall decode it with question bank and give the questions.

CROP PRODUCTION & MANAGEMENT**Second Year****PRACTICAL SCHEME OF VALUATION****Subject : Management of Field and Commercial Crops****Paper - I****Time : 3 hours****Max. Marks : 50****Section - I****(1 x 8 = 8 Marks)**

1. Write pests damage and their control measure observed in Rice crop.

Aim : 1 Marks

Observations Major symptoms : 3 Marks

Control measures : 4 Marks

Section - II**(1 x 8 = 8 Marks)**

Write the fertilizers management practiced in scientific way for rice and maiz crop.

Aim : 1 Marks

Observations scientific fertilizer management way for rice . : 4 Marks

Scientific fertilizer management way for maize crop : 3 Marks

Section - III**(2 x 4 = 8 Marks)**

(a) Intercultivation operation in rice

Aim : 1 Marks

Procedure : 2 Marks

Use : 1 Marks

(b) Topping and De-suckering in tobacco

Aim : 1 Marks

Equipment : 1 Marks

Procedure : 2 Marks

Section - IV**(2 x4 = 8 Marks)**

(a) Jaggary preparation in sugar cane

Aim : 1 Marks

Instruments : 1 Marks

Preparation : 2 Marks

(b) Seed rate and spacing Jowar

Aim : 1 Marks

Explanations : 3 Marks

Section - V Identification**(4 x 2 = 8 Marks)**

(a) Maize

Botanical name and family : 2 Marks

(b) Bengal gram

Botanical name : 1 Marks

Family : 1 Marks

(c) Black gram

Botanical name : 1 Marks

Family : 1 Marks

(d) Bajra

Botanical name : 1 Marks

Family : 1 Marks

Section - VI

Viva-Herbarium (Pests, disease and nutrients symptoms) : 5 Marks

Record : 5 Marks

CROP PRODUCTION & MANAGEMENT**Second Year (P.C. 105/72)****Subject : Management of Horticultural Crops****Paper - II****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Method of planting and care of fruit crops .
2. Write various method of irrigation to fruit crops in your area.
3. Write the fertilizer management for citrus crop.
4. Write the fertilizer management for Mango crop.
5. Identify the different pest and their control in Banana.
6. Identify the different pests and disease symptoms in citrus.

Section - II**1 x 8 = 8 Marks**

7. Write the package of practice for Tomato.
8. Write important package of practice for Brinjal cultivation.
9. Prepare different types of seed bed for nursery raising.
10. Write the propagation techniques of Asexual method.
11. Package of practices in Onion crop observed by you.
12. Write the different disease observed in Banana and write their control.

Section - III**2 x 4 = 8 Marks**

13. (a) Curing process in Tumeric
(b) Inter-culture operation in fruit trees.
14. (a) Training and pruning in Rose
(b) Preparation of potting mixture in nursery
15. (a) Diseases of Coconut
(b) Diseases of Tumeric

16. (a) Selection of seedlings in Coconut
(b) Pests in Bhendi
17. (a) Pests in Tomato
(b) Nutrients in Leafy vegetables.
18. (a) Water management in Coconut
(b) Why flowers and fruit drop occur in fruit crops.

Section - IV**2 x 4 = 8 Marks**

19. (a) Seed rate and spacing for Papaya
(b) Nutrient deficiency symptoms in citrus.
20. (a) Seed rate and spacing Bhendi
(b) Elements of Land scaping
21. (a) Irrigation management for Banana
(b) Seed rate and spacing for Chillies
22. (a) Important pests in Chillies
(b) Irrigation in Papaya
23. (a) Pests and diseases of Rose
(b) Components of Land scaping
24. (a) Principles of land scaping
(b) Varieties in Brinjal

Section - V**4 x 2 = 8 Marks**

25. (a) Pruning cutter
(b) Spade
(c) Mango
(d) Banana
26. (a) Citrus
(b) Leaf minor
(c) Bhendi

- (d) Amaranths
27. (a) Tumeric
(b) Papaya
(c) Onion
(d) Brinjal
28. (a) Jasmine
(b) Onion
(c) Citrus
(d) Leaf spot
29. (a) Fruit borer
(b) Mango
(c) Bhendi
(d) Chillies
30. (a) Papaya
(b) Rose
(c) Onion
(d) Tumeric

Section - VI

Viva-Herbarium

5 Marks

Record

5 Marks

CROP PRODUCTION & MANAGEMENT**Second Year****MODEL QUESTION PAPER****Subject : Management of Horticultural Crops****Paper - II****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

6. Identify and write the different pests and disease symptoms in citrus crop.

Section - II**1 x 8 = 8 Marks**

8. Write important package of practices for Brinjal crop cultivation.

Section - III**2 x 4 = 8 Marks**

13. (a) Curing process in Turmeric
(b) Intercultural operations in Fruit crops.

Section - IV**2 x 4 = 8 Marks**

21. (a) Irrigation management in Banana crop
(b) Seed rate and spacing for Chilli crop.

Section - V**4 x 2 = 8 Marks**

25. (a) Pruning cutter (b) Spade
(c) Mango (d) Banana

Section - VI

Viva - Herbarium collection (pests, diseases & nutrient deficiency symptoms). **5 Marks**

Records **5 Marks**

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CROP PRODUCTION & MANAGEMENT**Second Year****PRACTICAL SCHEME OF VALUATION****Subject : Management of Horticultural Crops****Paper - II****Time : 3 hours****Max. Marks : 50****Section - I****(1 x 8 = 8 Marks)**

Identify and write the different pests and disease symptoms in citrus crops.

Aim : 1 Marks

Observation

Major pests symptoms : 3 Marks

Major diseases symptoms : 4 Marks

Section - II**(1 x 8 = 8 Marks)**

Write important package of practices for brinjal crop cultivation.

Aim : 1 Marks

Seed rate, spacing : 2 Marks

Manures & fertilizers : 2 Marks

Plant protection : 2 Marks

Harvesting : 1 Marks

Section - III**(2 x 4 = 8 Marks)**

(a) Curing process in turmeric

Aim : 1 Marks

Process : 2 Marks

Use : 1 Marks

(b) Intercultural operations in fruit crop

Aim : 1 Marks

Pruning : 1 Marks

Training : 1 Marks

Weeding : 1 Marks

Section - IV**(2 x 4 = 8 Marks)**

(a) Irrigation management in banana crop.

Aim : 1 Marks

Explanation : 2 Marks

Importance : 1 Marks

(b) Seed rate & spacing chilli crop.

Aim : 1 Marks

Seed rate : 1/2 Marks

Spacing : 1/2 Marks

Section - V**(4 x 2 = 8 Marks)**

(a) Pruning cutter

Identification : 1 Marks

Use : 1 Marks

(b) Spade

Identification : 1 Marks

Use : 1 Marks

(c) Mango

Botanical name : 1 Marks

Family : 1 Marks

(d) Banana

Botanical name : 1 Marks

Family : 1 Marks

Section - VI

Viva Herbarium (pests diseases and nutrient deficiency symptoms)

: 5 Marks

Records : 5 Marks

CROP PRODUCTION & MANAGEMENT**Second Year (P.C. 105/73)****Subject : Seed Production and Processing****Paper - III****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Write procedure in detail about seed sample collection.
2. How do you conduct seed moisture test.
3. Write in detail about seed germination test.
4. How can you test the seed viability.
5. List out the duties of seed inspector.
6. Write different methods in seed dormancy breaking.

Section - II**1 x 8 = 8 Marks**

7. Write in detail about physical purity analysis you have observed in lab.
8. Write the procedure for seed certification .
9. In seed production how many classes of seed you have observed and explain them.
10. Write in detail about seed packing and storage.
11. Write in detail seed treatment procedure.
12. What you have observed when you visit seed processing unit.

Section - III**2 x 4 = 8 Marks**

13. (a) Roguing in Rice seed crop
(b) Detassiling in Maize seed crop
14. (a) Roguing in pulse seed production
(b) Roguing in castor seed production
15. (a) Characters of good seed
(b) Functions of NSC

16. (a) Functions of APSSDC
(b) Seed drying methods
17. (a) Seed processing
(b) Seed vigour test
18. (a) Selection of seed plot
(b) Male sterility

Section - IV**2 x 4 = 8 Marks**

19. (a) Synchronization
(b) Genetic purity
20. (a) Isolation distance
(b) Details of seed label
21. (a) Types of seed tags
(b) Mechanical mixtures
22. (a) Agencies involved in seed production
(b) Procedure crop requirement for seed production.
23. (a) Control of seed source for seed production
(b) Supplementary pollination (Hand pollinations S.F)
24. (a) Seed legislations
(b) Emasculation in Hybrid seed production

Section - V**4 x 2= 8 Marks**

25. (a) Seed treatment drum
(b) Seed treatment chemicals
(c) Ground nut
(d) Sun flower
26. (a) Hybrid maize seed
(b) Hybrid cotton seed
(c) H.Y.V rice seed

- (d) Sun flower seed
27. (a) Ground nut
(b) Red gram
(c) Cotton
(d) Black gram
28. (a) Rice
(b) Bajra
(c) Sun flower
(d) Ground nut
29. (a) Green gram
(b) Blue tag
(c) Pollination bag
(d) Forceps
30. (a) Seed treatment drum
(b) Seed treatment chemicals
(c) Ground nut
(d) Sun flower

Section VI

Viva

5 Marks

Record

5 Marks

CROP PRODUCTION & MANAGEMENT

Second Year

MODEL QUESTION PAPER**Subject : Seed Production and Processing****Paper - III****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

3. Write in detail about seed germination test.

Section - II**1 x 8 = 8 Marks**

(9) In seed production programme how many classes of seeds you have observed and explain them.

Section - III**2 x 4 = 8 Marks**

15. (a) Character of good seed

(b) Functions of N.S.C

Section - IV**2 x 4 = 8 Marks**

22. (a) Agencies involved in seed production

(b) Procedure crop requirement for seed production

Section - V**4 x 2 = 8 Marks**

30. (a) Seed treatment drum

(b) Seed treatment chemicals

(c) Ground nut (d) Sun flower

Section - VI

Viva - Herbarium Collection

5 Marks

Records

5 Marks

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Write in detail about seed germination

Tests

Aim : 1 Marks

Instruments

Requirement : 2 Marks

Procedure : 4 Marks

Result : 1 Marks

Section - II**(1 x 8 = 8 Marks)**

In seed production programme how many classes of seed you have observed and explain them.

Aim : 1 Marks

Observation : 3 Marks

Explanation : 4 Marks

Section - III**(2 x 4 = 8 Marks)**

(a) Characters of good seed

Aim : 1 Marks

Character ; 3 Marks

(b) Functions of N.S.C

Aim : 1 Marks

Functions : 3 Marks

Section - IV**(2 x 4 = 8 Marks)**

(a) Agencies involved in seed production

Aim : 1 Marks

List of Agencies : 3 Marks

(b) Purchasing crop requirement for seed production

Aim : 1 Marks

Explanations : 3 Marks

Section - V Identification**(4 x 2 = 8 Marks)**

(a) Seed treatment drum

Aim : 1 Marks

Use : 1 Marks

(b) Seed treatment chemicals

Aim : 1 Marks

Use : 1 Marks

(c) Ground nut

Botanical name : 1 Marks

Family : 1 Marks

(d) Sun flower

Botanical name : 1 Marks

Family : 1 Marks

Section - VI

Viva-Charts preparation : 5 Marks

Record : 5 Marks