

Vocational Practical Question Bank

First & Second Year

Crop Production & Management

Course Code : 105



State Institute of Vocational Education

O/o the Commissioner of Intermediate Education

Andhra Pradesh, Hyderabad

&

Board of Intermediate Education,

Andhra Pradesh, Hyderabad

First Year

CROP PRODUCTION & MANAGEMENT**First Year (P.C. 105/21)****Subject : Principles of Crop Production****Paper - I****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Measurement of Rainfall by non-Recording type Rain gauge.
2. Measurement of Relative humidity by wet & Dry bulb thermometer.
3. Draw a neat labelled diagram of country plough and explain its working.
4. Draw a neat labelled diagram of M.B plough and explain its working.
5. Explain ferti-seed drill with neat diagram.
6. Draw a neat diagram of Tractor-drawn cultivator and explain its working.

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

7. Explain about the Nursery seed bed preparation.
8. How do you prepare N.P.V solution.
9. Explain inter cropping system observed in your village.
10. What are the precautions that you take while spraying the Herbicides.
11. Explain crop rotation and its benefits observed in your village.
12. What are the methods followed in your village to control weeds in crop fields.

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

13. (a) Measurement of wind velocity by Anemometer.
(b) Measurement of maximum temperature with maximum thermometer.
14. (a) Re-cycling of inputs in organic farming
(b) Calculate the seed rate for hectare.

15. (a) Write types of Guntakas
(b) Uses of Ridge plough.
16. (a) Explain about USWB open pan evaporimeter.
(b) Types of herbicide formulations
17. (a) Measurement of Atmosphere minimum temperature.
(b) Multi-stored cropping system.
18. (a) Preparation of Neem seed Kernal extractions
(b) Preparation of Neem Oil.

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

19. (a) Wind wave
(b) Sunshine records
20. (a) Rhizobium seed treatment
(b) Blade harrow
21. (a) Wet land puddler
(b) Functions of combined harvester.
22. (a) Paddy drum seeder
(b) Paddy transplanter.
23. (a) Implements for hand weeding.
(b) Mulching
24. (a) Summer ploughing
(b) Organic farming

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

25. (a) Maximum and minimum thermometer.
(b) Wet and dry bulb thermometer
(c) Wind wave
(d) Robinson's cup anemometer.
26. (a) Rain gauge non-recording type

- (b) Ridge plough
 - (c) Blade harrow
 - (d) Cultivator
27. (a) Sickles
- (b) Hoes (Khurpi)
 - (c) Weed - 1
 - (d) Weed - 2
28. (a) Weedicide
- (b) Knapsack sprayer
 - (c) Duster
 - (d) Seed dressing drum
29. (a) Cultivator
- (b) Weed
 - (c) Weedicide
 - (d) Seed dressing drum
30. (a) Blade harrow
- (b) Wind wave
 - (c) Ridge plough
 - (d) Knapsack sprayer

Section - VI

- Viva and Herbarium (weeds)
- Record

5 Marks**5 Marks**

CROP PRODUCTION & MANAGEMENT

First Year

MODEL QUESTION PAPER**Subject : Principles of Crop Production****Paper - I****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Measurement of Rainfall by Non-Recording type rain gauge.

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

7. Explain in detail about the nursery bed preparation.

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

13.(a) Measurement of wind velocity by Anemometer.

(b) Measurement of maximum temperature with maximum, minimum thermometer.

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

20. (a) Rhizobium seed treatment.

(b) Blade Harrow

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

(a) Sickles

(b) Hoes

(c) Weed

(d) Weed

Section - VI**5 Marks**

1. Viva Herbarium (weeds)

2. Records

5 Marks

Note : The Serial numbers of the questions mentioned above are the serial numbers in question bank. In practical examination 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**First Year****PRACTICAL SCHEME OF VALUATION****Subject : Principles of Crop Production****Paper - I****Time : 3 hours****Max. Marks : 50****Section - I****(1 x 8 = 8 Marks)**

Measurement of rainfall by non-recording type rain gauge.

Aim	:	1 Mark
Instrument	:	1 Mark
Diagram	:	1 Mark
Labeling	:	1 Mark
Procedure	:	3 Mark
Result	:	1 Mark

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

1. Explain in detail about the nursery seed bed preparation.

Aim	:	1 Mark
Instruments	:	1 Mark
Procedure	:	4 Mark
Result	:	2 Mark

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

(a) Measurement of wind velocity by Anemometer

Aim	:	1 Mark
Instruments	:	1 Mark
Procedure & Result	:	2 Mark

(b) Measurement of maximum temperature with maximum - minimum thermometer.

Aim	:	1 Mark
Instruments/Diagram	:	1 Mark
Procedure	:	2 Mark

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

(a) Rhizobium seed treatment

Aim	:	1 Mark
Requirement	:	1 Mark
Procedure	:	2 Mark

(b) Blade harrow

Aim	:	1 Mark
Diagram	:	1 Mark
Working method	:	2 Mark

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

(a) Sickles

Identification	:	1 Mark
Use/comment	:	1 Mark

(b) Hoes (Khurpi)

Identification	:	1 Mark
Use/comment	:	1 Mark

(c) Weed - (1)

Identification	:	1 Mark
Botanical name	:	1 Mark

(d) Weed (2)

Identification	:	1 Mark
Botanical name	:	1 Mark

Section - VI**Viva - Herbarium (weeds) : 5 Marks****Record : 5 Marks**

CROP PRODUCTION & MANAGEMENT

First Year (P.C. 105/22)

Subject : Soil and Water Management

Paper - II

Time : 3 Hours

Max. Marks : 50

Section - I

1 x 8 = 8 Marks

1. How to collect soil sample and its preparation for analysis.
2. Determine organic carbon in a given soil sample.
3. Determine Nitrogen in a given soil sample.
4. Determine Phosphorous in a given soil sample.
5. Determine Potassium in a given soil sample.
6. Determine soil pH in a given soil sample.

Section - II

1 x 8 = 8 Marks

7. Determine carbonate and bi-carbonates in soil water.
8. How to prepare farm yard manure.
9. Write components and method of preparation of vermi compost.
10. How can you know about different methods of applications of fertilizers.
11. Explain layout of surface irrigation methods.
12. What are the advantages you find in drip-irrigation.

Section - III

2 x 4 = 8 Marks

13. (a) Detection of adulteration in fertilizers
(b) Bio-fertilizers
14. (a) Soil profile
(b) Watershed
15. (a) Sprinkler irrigation advantages
(b) Determination of soil moisture by feel method.

16. (a) Determination of soil texture by feel method
(b) Calculation of fertilizer dose
17. (a) Calculation of porosity.
(b) Visit to fertilizer and pesticide shops.
18. (a) Bio gas plant
(b) Green manure

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

19. (a) Determination of field capacity by field method
(b) Estimation of crop water requirement.
20. (a) Rhizobium
(b) Azolla
21. (a) Contour cultivation
(b) Contour bunding
22. (a) ICRISAT
(b) CRIDA
23. (a) Gullu-ploughing
(b) Mulching
24. (a) Contour strip cropping
(b) List out soil Erosion types by water and wind

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

25. (a) Green manure
(b) Urea
(c) DAP
(d) Ammonium sulphate
26. (a) DAP
(b) Potash
(c) Super phosphate
(d) Vermi-compost

27. (a) Oil seed cake
(b) F.Y.M
(c) Black cotton soil
(d) Red soil
28. (a) Rhizobium
(b) DAP
(c) Super phosphate
(d) Potash
29. (a) Oil seed cake
(b) Rhizobium
(c) Black cotton soil
(d) Green manure
30. (a) Nitrogen deficiency
(b) Potash deficiency
(c) Phosphorous deficiency
(d) ZN deficiency

Section - VI

Via and fertilizer sample collection

5 Marks

Record

5 Marks

CROP PRODUCTION & MANAGEMENT**First Year****MODEL QUESTION PAPER****Subject : Soil and Water Management****Paper - II****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

2. Determine organic carbon in given a soil sample

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

8. How to prepare farm yard manure.

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

13. (a) Detection of Adultration in fertilizers

(b) Bio-fertilizer

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

21. (a) Countour cultivation

(b) Contour bunding

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

27. (a) Oil seed cake

(b) Black cotton soil

(c) Red soil

(d) Black cotton soil

Section - VI

Viva Fertilizer samples collections

5 Marks

Record

5 Marks

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CROP PRODUCTION & MANAGEMENT**First Year****PRACTICAL SCHEME OF VALUATION****Subject : Soil and Water Management****Paper - II****Time : 3 hours****Max. Marks : 50****Section - I****(1 x 8 = 8 Marks)**

Determine organic carbon in givena soil sample

Aim	:	1 Mark
Instruments	:	2 Mark
Procedure	:	4 Mark
Result	:	1 Mark

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

How to preapre farm Yard manure

Aim	:	1 Mark
Instruments	:	2 Mark
Procedure	:	5 Mark

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

(a) Detection of Adultration in fertilizer

Aim	:	1 Mark
Instruments	:	1 Mark
Procedure	:	1 Mark
Result	:	1 Mark

(b) Bio-Fertilizer

Aim	:	1 Marks
Explanation	:	1 Marks

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

(a) Contour cultivation

Aim : 1 Marks

Explanation : 3 Marks

(b) Contour bunding

Aim : 1 Marks

Explanation : 3 Marks

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

(a) Oil seed

Name : 1 Marks

Use : 1 Marks

(b) F.Y.M

Name : 1 Marks

Use : 1 Marks

(c) Black cotton soil

Identification : 1 Marks

Character : 1 Marks

(d) Red soil

Identification : 1 Marks

Character : 1 Marks

Section - VI

Viva-Fertilizer samples collection : 5 Marks

Record : 5 Marks

CROP PRODUCTION & MANAGEMENT**First Year (P.C. 105/23)****Subject : Farm Management and Agril Extension****Paper - III****Time : 3 Hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Name the farm records and explain inventory with table head.
2. When you went to PACS unit, what you observed there ?.
3. Explain structure and functions of RRB (Region Rural Banks).
4. List out Audio-Visual aids which play vital role in mass communication and explain any two of them.
5. How can you conduct method demonstration.
6. What have you observed in K.V.K visit ?

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

7. How Rythu Bazaar is useful to farmer.
8. How do you conduct result demonstration .
9. What are the objectives of farmer training centre.
10. Briefly describe your visit to Agril Market yard.
11. Write teaching objectives of Polam Badi.
12. What are the activities done by ARS (Agricultural Research Station) which is near to you.

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

13. (a) Dairy
(b) Live stock register
14. (a) Labour wage register
(b) Stock register
15. (a) Cash book
(b) Importance of farm record

16. (a) Exhibits
(b) Charts
17. (a) Market channels for food grains
(b) Market channels for oil seeds.
18. (a) Rythu Mithra groups
(b) Self help groups

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

19. (a) Market, Finance
(b) Market, Intelligence
20. (a) Assembling
(b) Storage of Agril products
21. (a) Grading and standardization
(b) Processing
22. (a) Day old market (Santha)
(b) Crop loans
23. (a) Role of commercial banks in Agril development
(b) Crop insurance
24. (a) NABARD activities
(b) Kisan credit card

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

25. (a) Pamphlets
(b) Posters
(c) Leaf lets
(d) Book lets
26. (a) Phone call
(b) Personal letter
(c) Farmers day

- (d) Study tour
- 27. (a) Exhibition
 - (b) News Paper
 - (c) Pamphlets
 - (d) Book lets
- 28. (a) Black Board
 - (b) Maps
 - (c) Slides
 - (d) Film strip
- 29. (a) Capital
 - (b) Labour
 - (c) Slides
 - (d) News Paper
- 30. (a) Land
 - (b) Organizer
 - (c) Study tour
 - (d) Personal letter

Section - VI

Viva and Charts preparation

5 Marks

Record

5 Marks

CROP PRODUCTION & MANAGEMENT**First Year****MODEL QUESTION PAPER****Subject : Farm Management and Agril Extension****Paper - III****Time : 3 hours****Max. Marks : 50****Section - I****1 x 8 = 8 Marks**

1. Name of the farm records and explain farm inventory with table head.

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

9. What are the objectives of farmers training centre.

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

18. (a) Rythu Mithra groups
(b) Self help groups (S.H.G)

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

24. (a) NABARD Activities
(b) Kisan credit card (K.C.C)

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

27. (a) Black Board
(b) Maps (c) Slides
(d) Film strips

Section - VI

Viva /charts preparation **5 Marks**

Record **5 Marks**

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CROP PRODUCTION & MANAGEMENT**First Year****PRACTICAL SCHEME OF VALUATION****Subject : Farm Management and Agril Extension****Paper - III****Time : 3 hours****Max. Marks : 50****Section - I****(1 x 8 = 8 Marks)**

Name the farm records and explain farm inventory with table head.

Aim : 1 Marks

Explanations : 3 Marks

Table Head : 4 Marks

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

Aim : 1 Marks

Objectives : 7 Marks

(at least 7 objectives)

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

(a) Rythu Mithra groups

Aim : 1 Marks

Observations : 1 Marks

Explanations : 2 Marks

(b) Self help groups

Aim : 1 Marks

Observations : 1 Marks

Explanations : 2 Marks

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

(a) NABARD activities

Aim : 1 Marks

Activities : 3 Marks

(b) Kisan credit card

Aim : 1 Marks

Explanations : 3 Marks

Section - V

(4 x 2 = 8 Marks)

(a) Black Board

Identification : 1 Marks

Classification : 1 Marks

(b) Maps

Identification : 1 Marks

Classification ; 1 Marks

(c) Slides

Identification : 1 Marks

Classification : 1 Marks

(d) Film Strip

Identification : 8 Marks

Classification : 1 Marks

Section - VI

Viva/Charts preparation : 5 Marks

Record : 5 Marks