



PRACTICE SET
End Semester (1st Semester) Examination, December 2025

Program: B. Sc. (Hons.) Agriculture

Semester: 1st

Course: Fundamentals of Agronomy

Course Code: AGRON-101

Course objective

At the end of the course the student will be able to:

CO1: Understand the scope of agronomy and apply principles of tillage, seed sowing, crop density and nutrient use efficiency.

CO2: Students will be able to evaluate nutrient requirements of crops and apply appropriate nutrient management strategies, including fertilizers, manures, bio-fertilizers and green manuring for enhanced productivity and soil health.

CO3: Understand soil- water relationship and apply suitable water management practices for sustainable crop production.

CO4: Understand weed importance, agro climatic zones and classification in crop production and apply sustainable practices for effective weed management, resource use and crop growth improvement.

Unit / Module-1

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
1.	Define Agronomy, illustrate its scope.	Apply	CO1
2.	Summarise briefly relation of agronomy with other disciplines of agricultural sciences.	Understand	CO1
3.	List the advantages and disadvantages of tillage.	Remember	CO1
4.	Briefly discuss the objectives of tillage	Understand	CO1

5.	Describe briefly the different methods of sowing.	Remember	CO1
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Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
6.	Breakdown the different methods of sowing.	Analyze	CO1
7.	Examine relationship of agronomy with other sciences and role of agronomist.	Analyze	CO1
8.	Categorize different types of tillage, briefly explaining the tools and implements used in different tillage operations.	Analyze	CO1
9.	Differentiate between agriculture and agronomy. Briefly explain its scope and importance of agronomy.	Analyze	CO1
10.	Differentiate between crop geometry, crop density and plant geometry.	Analyze	CO1

Unit / Module-2

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
11.	Define essential nutrients. List the name of macro and micro elements.	Remember	CO2
12.	Calculate the plant population of mustard crop in 500m ² area if sown at spacing of 45x 10cm.	Understand	CO2
13.	State the importance of manures and fertilizers in crop.	Remember	CO2
14.	Prepare a chart for classification of organic manures.	Apply	CO2
15.	Express the criteria of essentiality.	Understand	CO2

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
16.	Differentiate between manures and fertilizers with suitable examples.	Analyze	CO2
17.	Examine bulky organic manure. Classify and discuss each type of bulky organic manure.	Analyze	CO2
18.	Analyze the essential nutrients for plant growth with example. Compare the functions of primary and secondary nutrients.	Analyze	CO2
19.	Explain the role of green manuring in crop production and also its types.	Analyze	CO2
20.	Evaluate the classification of organic manures.	Evaluate	CO2

Unit / Module-3

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
21.	Define soil moisture constant.	Understand	CO3
22.	Prepare a flow chart showing the water resources of India.	Apply	CO3
23.	Discuss the significance of sustainable water management.	Understand	CO3
24.	Define saturation capacity and field capacity.	Remember	CO3
25.	Briefly describe the distribution of water resources across the world.	Remember	CO3

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
26.	Differentiate between saturation capacity, field capacity and permanent wilting point.	Analyze	CO3
27.	Explain soil moisture constants and also explain different forms of soil water- gravitational water, capillary water and hygroscopic water.	Analyze	CO3
28.	Categorize the major water resources of the world, India and their significance in sustainable water management.	Analyze	CO3
29.	Analyse the major water resources of India and challenges faced in their utilizations.	Analyze	CO3
30.	Evaluate different types of soil water, reviewing the permanent wilting point	Evaluate	CO3

Unit / Module-4

Section: I (5 Marks questions, only Lower order Thinking -LOT)

Sl. No.	Model Questions	Bloom Taxonomy	CO
31.	Define weeds. Explain the characteristics of weeds.	Understand	CO4
32.	List the agro climatic zones of India.	Remember	CO4
33.	List the factors affecting cropping system.	Remember	CO4
34.	Summarize harmful effects of weeds with suitable examples.	Understand	CO4
35.	Describe how weeds are beneficial for humankind in context of agriculture.	Remember	CO4

Section: II (10 Marks questions, only Higher Order Thinking)

Sl. No.	Model Questions	Bloom Taxonomy	CO
36.	Analyze the phenomenon of allelopathy by classifying its types with relevant examples and also evaluate the importance of allelopathy in crop production.	Analyze	CO4
37.	Analyze the classification of weeds and evaluate the importance of weeds.	Evaluate	CO4
38.	Explain crop rotation, principles of crop rotation and its advantages and disadvantages.	Analyze	CO4
39.	Briefly explain the agro climatic zones of India. Recommend suitable strategies for improving productivity in drought prone agro-climatic regions.	Analyze	CO4
40.	Explain sustainable crop production and its importance in ensuring food security and environmental protection.	Analyze	CO4

CO- wise

CO	Q.No.	Marks
CO1	1-10	75
CO2	11-20	75
CO3	21-30	75
CO4	31-40	75
Total		300

Unit-wise

Unit	Q.No.	Marks
1	1-10	75
2	11-20	75
3	21-30	75
4	31-40	75
Total		300

BTL- wise

BTL	Q.No.	Marks
LOT	1-5,11-15,21-25,31-35	100
HOT	6-10,16-20,26-30,36-40	200
Total		300

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Disclaimer: - This is a practice set. The Question in End semester examination will differ from the practice set. This practice set is meant for practice only.