

**PRACTICE SET**

**End Semester (1<sup>st</sup> Semester) Examination, December –2025**

**Program: B. Sc. (Hons.) Agriculture**

**Semester: 1<sup>st</sup>**

**Course: Fundamentals of Horticulture**

**Course Code: HORT-101**

**Course Outcomes**

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

- CO1** Identify the different branches of horticulture including pomology, olericulture, floriculture, landscaping, spices, and medicinal plants.
- CO2** Apply knowledge of orchard management, propagation techniques, cultural operations, and nutrient management for effective cultivation of horticultural crops.
- CO3** Analyze the physiological aspects of horticultural crops and their role in growth, development, and yield.
- CO4** Develop practical skills in handling horticultural practices for sustainable and commercial crop production.

**Unit I**

**Short Answer Questions: 5 Marks questions**

Sl. No.	Model Questions	Bloom Taxonomy	CO
1.	List and explain the major branches of horticulture.	Remember	CO1
2.	Differentiate between fruits and vegetables with examples.	Understand	CO2
3.	Discuss the role of horticulture in the Indian economy.	Understand	CO3
4.	Explain the role of horticulture in employment generation.	Understand	CO4
5.	Recall the importance of floriculture and landscaping for aesthetic value.	Remember	CO4

**Long Answer Questions: 10 Marks questions**

Sl. No.	Model Questions	Bloom Taxonomy	CO
6.	Analyze the contribution of horticulture to nutrition and export economy of India.	Analyze	CO3
7.	Examine the challenges and opportunities for growth of the horticulture sector in India.	Evaluate	CO2
8.	Design a model home garden integrating fruits, vegetables, and ornamentals.	Create	CO4
9.	Analyze traditional vs. modern horticultural practices in India with suitable examples.	Analyze	CO1
10.	Develop a diagrammatic chart showing classification of horticultural crops.	Create	CO2

## Unit II

### Short Answer Questions: 5 Marks questions

Sl. No.	Model Questions	Bloom Taxonomy	CO
11.	List the six major horticultural zones of India.	Remember	CO2
12.	Explain how temperature and rainfall influence crop adaptation.	Understand	CO3
13.	Illustrate crop classification based on growth habit and life span.	Apply	CO1
14.	Identify suitable fruit crops for arid and semi-arid zones.	Apply	CO2
15.	Explain the difference between botanical and horticultural classification.	Understand	CO1

### Long Answer Questions: 10 Marks questions

Sl. No.	Model Questions	Bloom Taxonomy	CO
16.	Design a cropping calendar for a subtropical region.	Create	CO2
17.	Formulate climate-smart horticultural strategies for semi-arid areas.	Create	CO4
18.	Compare tropical, subtropical, and temperate crop systems.	Analyze	CO1
19.	Evaluate the significance of zoning in horticultural planning.	Evaluate	CO2
20.	Evaluate government initiatives promoting regional horticultural development.	Evaluate	CO4

## Unit III

### Short Answer Questions: 5 Marks questions

Sl. No.	Model Questions	Bloom Taxonomy	CO
21.	Define soil and explain its role in horticulture.	Remember	CO1
22.	Explain how wind and light intensity affect plant physiology.	Understand	CO4
23.	Describe the importance of soil pH in nutrient availability.	Understand	CO3
24.	List the types of soils suitable for horticultural crops.	Remember	CO2
25.	Apply soil–climate interactions to recommend suitable crops for a region	Apply	CO3

**Long Answer Questions: 10 Marks questions**

Sl. No.	Model Questions	Bloom Taxonomy	CO
26.	Examine the importance of microclimate management in orchards.	Evaluate	CO4
27.	Analyze how light and temperature interactions control flowering in fruit crops.	Analyze	CO4
28.	Evaluate the effectiveness of soil amendments in improving crop productivity.	Evaluate	CO3
29.	Evaluate the impact of extreme weather on horticultural productivity	Evaluate	CO2
30.	Formulate integrated soil management strategies for sustainable production.	Create	CO2

**Unit IV****Short Answer Questions: 5 Marks questions**

Sl. No.	Model Questions	Bloom Taxonomy	CO
31.	Define plant propagation and state its importance.	Remember	CO1
32.	List the methods of plant propagation with examples.	Remember	CO2
33.	Describe the importance of stock–scion relationships.	Understand	CO3
34.	Explain the difference between sexual and asexual propagation.	Understand	CO4
35.	Identify the principles of orchard layout and site selection.	Remember	CO3

**Long Answer Questions: 10 Marks questions**

Sl. No.	Model Questions	Bloom Taxonomy	CO
36.	Compare various vegetative propagation methods in terms of efficiency.	Analyze	CO1
37.	Examine the limitations and advantages of seed vs. vegetative propagation.	Evaluate	CO4
38.	Design an orchard layout plan for a one-hectare mango orchard.	Create	CO3
39.	Assess the efficiency of training systems like open centre and central leader.	Evaluate	CO1
40.	Evaluate the importance of microclimate control in propagation structures.	Evaluate	CO2

**Summary Sheet:****CO Wise**

<b>CO</b>	<b>Q. No.</b>	<b>Marks</b>
CO1	1,9,13,15,18,21,31,36,39	65
CO2	2,7,10,11,14,16,19,24,29,30,32,40	95
CO3	3,6,12,23,25,28,33,35,38	60
CO4	4,5,8,17,20,22,26,27,34,37	80
<b>Total</b>		<b>300</b>

**Unit Wise**

<b>Unit</b>	<b>Q. No.</b>	<b>Marks</b>
Unit I	1-10	75
Unit II	11-20	75
Unit III	21-30	75
Unit IV	31-40	75
<b>Total</b>		<b>300</b>

**Bloom's Taxonomy Level (BLT)Wise**

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

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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.