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End Semester Examination, December 2024
B. Sc. (Hons.) Agriculture -Ist Semester
Fundamental of Horticulture (ASAG 101A)

Time: 2.5 hrs.

Max Marks: **50**

Note: *All Questions are compulsory. Marks are indicated against each question.*

PART-A

Q.1 Attempt any five questions:

- | | |
|---|-----------------------|
| (a) Define horticulture and explain its scope | [CO-1] [L-2] 2 |
| (b) Write the classification of Horticulture crops and briefly explain any one. | [CO-1] [L-2] 2 |
| (c) What are the main factors influencing seed germination? | [CO-2] [L-2] 2 |
| (d) Explain the concept of “chilling requirement” in fruit trees. | [CO-3] [L-2] 2 |
| (e) Discuss the importance of pruning in orchard management. | [CO-3] [L-4] 2 |
| (f) What is meant by “parthenocarpy”? How does it affect fruit production? | [CO-4] [L-2] 2 |
| (g) Name two common plant bio-regulators and their role in horticulture. | [CO-4] [L-1] 2 |

2x5

PART-B

Q.2 Explain the different methods of plant propagation and their significance in horticulture. [CO-2] [L-3] **10**

OR

Discuss the role of seed dormancy in plant propagation and the methods used to break seed dormancy
[CO-2] [L- 2] **10**

Q.3 What is juvenility in fruit trees? How does it influence the fruiting process? [CO-3] [L-2] **10**

OR

Explain the methods of training and pruning of fruit trees. [CO-3] [L-2] **10**

Q.4 Explain the principles of orchard establishment. Discuss how layout and management practices can enhance productivity in fruit orchards. [CO-4] [L-3] **10**

OR

Describe the significance of flower bud differentiation in fruit trees and the factors that influence it. [CO-4] [L-2] **10**

Q.5 Discuss the role of plant bio-regulators in horticulture. How do they influence plant growth, fruit development, and yield? [CO-4] [L-3] **10**

OR

What are the different methods of irrigation used in horticulture? Explain the importance of water management for horticultural crops. [CO- 4] [L-2] **10**