



**KERALA AGRICULTURAL UNIVERSITY**  
**B. Tech. (Agrl. Engg.) 2021 Admission**  
**II Semester Final Examination – September 2022**

Sacs.1208

**Principles of Horticultural Crops and Plant Protection (1+1)**

**Marks: 50**  
**Time: 2 hours**

**I Fill in the blanks (10x1=10)**

1. Country first in vegetable production .....
2. Number of agro climatic zones in Kerala .....
3. Pomegranate is propagated by .....
4. The tissue first changes into a mass of undifferentiated cells is called .....
5. Example for a direct sown vegetable .....

**State True or False**

6. China ranks first in fruit production in the world.
7. Removing of field heat from the horticultural produce is called as hardening.
8. Vigour or size of the plant determines the spacing for planting.
9. Papaya contains protein digesting enzymes.
10. 2, 4, D is a chemical weedicide.

**II Write short notes on ANY FIVE of the following (5x2=10)**

1. Define High Density Planting.
2. Write the objectives of pruning.
3. Define maturity.
4. List out four plant growth regulators and its function used for horticultural crops.
5. Give the advantages of sexual propagation.
6. What are pre harvest practices to minimize postharvest decay in horticultural produce.
7. Write the economic importance spice crops.

**III Answer ANY FIVE of the following (5x4=20)**

1. Define micropropagation and its advantages.
2. Write on the merits and demerits of vegetative propagation.
3. Discuss the weed and water management in horticultural crops.
4. Explain the criteria for quality vegetable seed production.
5. Give the seed rate, seed treatment and nursery raising in chilli.
6. Give the major diseases of horticultural crops with their management.
7. Describe the value addition of horticultural produces.

**IV Write an essay on ANY ONE of the following (1x10=10)**

1. (a) Define Horticulture.  
(b) Discuss the division and classification of horticultural crops.
2. Discuss the soil and climatic requirements of floriculture crops.

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