



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Tech. (Agrl. Engg.) 2022 & Previous Admissions**  
**II Semester Final Examination - September 2023**

Sacs.1208

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

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

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

1. The term Horticulture is derived from two Latin words i.e., Hortus meaning .....and Cultra meaning .....
2. Total area under horticultural crops during 2019-20 is ..... million ha.
3. Pomology is the cultivation of .....
4. India is the ..... largest producer of vegetables in the world.
5. .... is the removal of the tip of the shoot to encourage lateral branches.

**State True or False**

6. Gladiolus is propagated through corm.
7. Litchi is propagated by means of Air layering.
8. Training should be done at the early age of the plant.
9. Seed propagation is done to obtain true to type seedling.
10. Suckers are the lateral branches developing from the underground parts of the stem or roots.

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

1. Method of Propagation
2. Pruning
3. Runners
4. Hotbeds
5. Advantages of grafting
6. Micropropagation
7. Fertigation

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

1. Write down the scope and importance of horticulture.
2. Write down the advantages and disadvantages of seed propagation.
3. What is Nursery? What are the points to be considered for selecting an appropriate location for establishment of a nursery?
4. Define water use efficiency (WUE). What are the factors affect WUE? Mention the critical stage of water requirement of tomato, potato, cabbage and cauliflower.
5. What are the different systems of planting followed in layout of an orchard? Discuss in brief about the Quincunx system.
6. What is budding? Discuss in brief about T budding with example.
7. Discus in brief about grading and packaging of horticultural cops.

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

1. Briefly discuss the cultivation practice of Anthurium with reference to soil, climate, varieties, uses, propagation and harvesting.
2. Briefly discuss the cultivation practice of Chrysanthemum with reference to soil, climate, varieties, uses, propagation and harvesting.

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