



KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Agrl. Engg.) 2020 Admission
II Semester Final Examination- October 2021

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 the latin word viz; _____ and _____.
2. Application of fertilizers through irrigation water is known as _____.
3. _____ system of planting is adopted in hilly areas.
4. _____ is a perennial vegetable
5. _____ is the percentage by number of pure seeds capable of germination.
6. _____ are used for pruning hedges/making topiary.
7. _____ refers to the growing of trees for aesthetic or scientific or education purpose.
8. _____ refers to the removal of plant parts such as buds, developed shoots and roots to maintain a desirable form.
9. _____ is a very common disease in vegetable crops and ornamental plants in nurseries which results in collapse and death of young seedlings.
10. _____ refers to the development of new plants in an artificial medium under aseptic condition from very small pieces of plants.

II Write short notes on ANY FIVE of the following

(5x2=10)

1. Advantages of mulching.
2. Biofertilizers.
3. Classification of vegetables based on parts used.
4. Wrapping of fruits.
5. A seed viability test.
6. Controlled atmospheric storage.
7. Fruit thinning.

III Answer ANY FIVE of the following

(5x4=20)

1. Factors leading to post harvest spoilage of fruits and vegetables.
2. Write a brief note on the advantages of micro propagation.
3. Explain multitier system of cropping. Give an ideal combination of crops for multitier cropping in coconut plantations.
4. Advantages of vegetative method of propagation in horticulture crops.
5. Explain the common methods of leader training followed in fruit crops.
6. What are the qualities of a good propagating medium? List out the commonly employed media for propagation of plants.
7. Explain the various types of grafting methods employed in horticultural crops.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Briefly discuss the importance of horticulture with special reference to Kerala.
2. Discuss the methods to determine the maturity time for harvesting fruits.
