

KERALA AGRICULTURAL UNIVERSITY
B.sc (Hons) Ag 2015 Admission
Ist Semester Final Examination-February -2016



Cat. No: Hort.1101

Title: Fundamentals of Horticulture (1+0)

Marks: 50.00

Time: 2 hours

I Fill in the blanks/State True or False

(10 x 1=10)

1. Papaya is propagated by _____
2. True to type progenies are obtained from _____ propagation
3. Cauliflorous type of bearing habit is seen in _____
4. Viviparous germination is seen in _____
5. Gelling agent commonly used in tissue culture is _____
6. T budding is also known as _____
7. Application of fertilizers clubbed with irrigation is known as _____
8. Carbohydrate source for tissue culture plants is _____
9. _____ system of planting is followed in hilly areas
10. _____ system of planting accommodates 15% more trees than square system

II Write short notes on any Five questions

(5 x 2=10)

1. Explain briefly about air layering
2. Write briefly about mist chamber
3. What is the principle behind micro propagation. List out the major routes of micro propagation
4. What are the causes of fruit drop in horticultural crops
5. Write down the qualities of an ideal propagating medium. List out the various media used for propagation
6. Describe briefly on open centre training
7. Define graft incompatibility. What are the different types of incompatibility. Give examples

III Answer any Five questions

(5 x 4=20)

1. What is multitier cropping system. Give suitable crop components in this system followed in Kerala
2. Mention in brief the different methods for breaking seed dormancy
3. Briefly explain divisions in horticulture with suitable examples
4. What are the plant growth regulators? List out their uses with examples in horticultural crops
5. Give an account of the factors to be considered while planning and layout of an orchard
6. Discuss elaborately the components of a commercial nursery
7. List out different types of cutting. What are the various factors affecting rooting of cuttings

IV Answer any ONE of the following

(1 x 10=10)

1. List out the different grafting and budding methods. Explain any one method each in grafting and budding with illustrations.
2. Briefly discuss the potential application of plant cell, tissue and organ culture in horticulture