

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons) Agriculture 2016 Admission

1st Semester Final -Examination-March 2017

Cat. No: Hort 1101

Marks: 50

Title: Fundamentals of Horticulture (1+1)

Time : 2 hours

I. Fill in the blanks:

(10 x 1=10)

1. The term horticulture is derived from two Latin words ----- and -----
2. The special feature of Kerala's horticulture is ----- system of cultivation.
3. Tree suitable for ----- should be erect, tall, quick growing, hardy and strong.
4. ----- is the queen of spices.
5. Occurrence of an asexual reproductive process in place of normal fertilization to form an embryo is known as -----
6. ----- is the phenomenon in which fruits develop parthenocarpically , still they produce viable seeds.
7. ----- system of planting is commonly adopted in tea in hilly areas.
8. Hexagonal system of planting accommodate ----- more trees than square system of planting.
9. ----- is a detached scion method of grafting.
10. Seed ----- is the percentage by number of pure seeds capable of germination.

II. Write short notes/answers on ANY FIVE:

(5x 2=10)

1. Define fruit thinning and what are the different methods of fruit thinning.
2. Tetrazolium test.
3. Serpentine layering in Jasmine.
4. Mist propagation.
5. Differentiate display area and sales area in a nursery.
6. Advantages of micropropagation.
7. High density planting.

III Write answers on ANY FIVE:

(5 x 4=20)

1. Define graft incompatibility and list out the symptoms.
2. Induction of seedlessness in fruits.
3. Discuss the scope and importance of horticultural crops in India with special reference to Kerala.
4. Application of growth regulators in plant propagation.
5. Explain different methods to overcome seed dormancy .
6. Bearing habits and its classification.
7. Factors responsible for unfruitfulness.

IV. Write essay on any ONE

(1 x 10=10)

1. Briefly discuss the potential application of plant cell tissue and organ culture in Horticulture.
2. Differentiate between grafting and budding. List out the methods of grafting employed for the production of new plants. Explain epicotyl grafts in mango with suitable illustrations.

(2 x 5=10)

II. Write short notes on ANY FIVE:

1. Define full flowering and what are the different methods of fruit thinning.
2. Tetrahymena test.
3. Reproductive system in banana.
4. Air propagation.
5. Differentiate digray and grey rot in a mango.
6. Advantages of micropropagation.
7. High density planting.

(2 x 5=10)

III. Write answers on ANY FIVE:

1. Define graft incompatibility and list out the symptoms.
2. Infestation of arthropods in fruits.
3. Discuss the scope and importance of botanical crops in India with special reference to Kerala.
4. Application of growth regulator in plant propagation.
5. Explain different methods to overcome seed dormancy.
6. Heating table and its classification.
7. Factors responsible for waterlogging.