



KERALA AGRICULTURAL UNIVERSITY

B.Sc.(Hons).Forestry 2016 Admission

IV Semester Final Examination-July 2018

Fbti.2207

Clonal Forestry (1+1)

Marks: 50

Time: 2 hours

1 Fill up the blanks (10x1=10)

1 When a propagule grow like a branch then growth is called..... growth

2 The effect of location on vegetative propagule is called.....

3 The authors of book 'Applied forest tree improvement 'are.....

State True/False

4 Vegetatively propagated plants are precocious in bearing than seed propagated plant

5 Phenotypically superior tree is called elite tree

Choose the correct Answer

6 Silicate material added to potting media is

a Perlite b Pumice c Vermiculite d none of these

7 An original tree from which a cutting or graft is taken is known as:

a Ramet b Ortet c) Clone d Scion

8 The term referring to the age effects in vegetative propagules:

a Periphysis b Topophysis c Cyclophysis d None of the above

9 Which graft is best for vegetative propagation of Eucalyptus:

a Veneer graft b Splice graft c Cleft graft d Tongue graft

10 Condition of fluted bark due to incompatibility of grafting is observed in

a Toona b Harar c Pines d Grewia

II Write short notes/answers etc on ANY FIVE

(5x2=10)

1 Advantages of micropropagation.

2 Different steps for development and deployment of clonal propagation.

3 Different types of covering material for green house and their properties.

4 Explain root suckers and coppice methods of vegetative propagation.

5 Difference between soft wood and hard wood cuttings.

6 Advantages of root trainers.

7 Different problems in micro propagation of trees.

P.T.O

III Answer any FIVE of the following. (5x4=20)

- 1 Define clonal forestry. Write its advantages and disadvantages of clonal forestry.
- 2 Characteristics of potting media for propagation
- 3 What is graft incompatibility? What are its causes and symptoms?
- 4 Mating designs and their objectives.
- 5 Different methods for selection of plus trees
- 6 What is micropropagation? Explain different stages of micropropagation
- 7 What is miniclinal technology? Explain its advantages and limitations.

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

- 1 The role of plant growth hormones in clonal propagation
- 2 Propagation by cutting
