



KERALA AGRICULTURAL UNIVERSITY

B.Sc.(Hons).Forestry 2017 Admission

IV Semester Final Examination- July 2019

Fbti.2207

Clonal Forestry (1+1)

Marks: 50

Time: 2 hours

(10x1=10)

- I Fill up the blanks**
- 1 The group of growth regulators used for rooting in vegetative propagation are collectively called as
 - 2 Auxins are soluble in
 - 3 a twig, bud, or other vegetative cutting to be grafted onto the root-system of another plant.
 - 4 Choosing the best clones from a clonal test referred as.....
 - 5 Propagation of a plant by asexual means is known as.....
 - 6 An original tree from which a cutting or graft is taken is known as.....
 - 7 Hormone, used for enhancing lateral branching in micropropagation is.....
 - 8 The phenomenon of long time persistence of age or position effects in trees grown from cuttings or grafts is called:
 - 9 The term referring to the age effects in vegetative propagules is.....
 - 10 Piece of plant tissue used to initiate a culture is called as.....

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

- 1 Herbaceous cutting.
- 2 Tongue grafting with necessary figure.
- 3 Advantages and disadvantages of grafting and budding.
- 4 Growth/rooting medium qualities.
- 5 Physical properties of Perlite.
- 6 Causes of incompatibility between scion and rootstock.
- 7 Merits and demerits of vegetative propagation.

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

- 1 Various types of stem cuttings.
- 2 Clonal forestry- its advantages and disadvantages .
- 3 Advantages and disadvantages of micro propagation.
- 4 Establishment of clonal testing area.
- 5 Various hardware used in clonal propagation along with its uses.
- 6 Establishment of green houses and its types.
7. Discuss different methods of budding in clonal forestry.

IV Answer any ONE of the following (1x10=10)

- 1 Different propagation structures used in clonal forestry.
- 2 Micro propagation and different methods of *in vitro* shoot multiplication.
