

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry 2014 Admission
Vth Semester Final Examination- January-2017

Cat. No: Fmau.3106.

Marks: 50.00

Title: Tree Propagation and Nursery Technology 2 (1+1)

Time: 2 hours

I Fill up the blanks

(10x1=10)

1. Poly embryony is seen in ----- and -----
2. ----- type of nursery beds is preferred for raising quality seedling of Casuarina.
3. Difficult to root cuttings are propagated under -----
4. Re potting is done to overcome -----
5. ----- is the hormone used in rooting of cuttings.
6. ----- type of roots are produced in layering method.
7. The root stocks are generally multiplied by -----
8. Treatment of seeds with low temperature is called as -----
9. Cutting prepared along with a T shaped piece of wood at base is called as -----
10. The seeds with hard seed coat can be treated by putting them in ----- water

II Write short notes on any FIVE

(5x2=10)

1. Double dormancy
2. Types of cuttings
3. Primary and secondary nursery
4. Advantages of seed propagation
5. Runner and off set
6. Lath house
7. Quick dip method of hormone application

III Write short answers on any FIVE

(5x4=20)

1. Write the details on various types of grafting methods with neat sketches.
2. Discuss on the seed certification programmes followed in propagation of forest crops.
3. Write in detail on incompatibility and suggest ways and means to overcome the same.
4. Give the different components of a commercial nursery with a suitable sketch.
5. Discuss on the role of growth hormones used in propagation.
6. Discuss on physiology of rooting of cutting, highlighting the factors affecting rooting.
7. Give the details on erecting a green house exclusively for propagation.

IV Write essay on any ONE

(1x10=10)

1. Discuss on the environmental management with special reference to principle and practices of mist propagation in a commercial nursery.
2. Give the details on anatomical and physiological aspects of graft union.
