



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Forestry 2015 Admission**  
**V Semester Final Examination-February-2018**

Fmau.3106

**Tree Propagation and Nursery Technology (1+1)**

**Marks: 50**

**Time: 2 hours**

**(10x1=10)**

**I Fill in the blanks:**

- 1 Dry seeds when placed on moist filter paper absorb water and swell up due to.....
- 2 The progeny of breeder seed produced by National Seeds Corporation is.....
- 3 Serpentine method is a ..... type of propagation method
- 4 Plants having all the characters of mother plant are obtained in the method called.....
- 5 Which of the following is a natural plant auxin?  
a 2,4-D                      b 24,5-T                      c IAA                      d IBA
- 6 The success of a grafting in plants is the union of .....
- 7 Pollination by the wind is known as.....
- 8 The shoot producing part in grafting is known as.....
- 9 The chemical used for pollen staining during pollen germination studies.....
- 10 .....is known as the principal axis of plant from which buds and shoots are developed

**II Write Short notes on ANY FIVE of the following**

**(5x2=10)**

- 1 Somaclonal variations
- 2 Totipotency in plants
- 3 Protogyny
- 4 Roots
- 5 Apical dominance
- 6 What is Recurrent Apomixis
- 7 What is artificial seed ?

**III Answer ANY FIVE of the following**

**(5x4=20)**

- 1 Define and differentiate pollination and Fertilization
- 2 Concepts and principles of grafting
- 3 Write a note on various steps involved in the aseptic in vitro culture of plant tissue
- 4 Write a note on role of Auxins in plants
- 5 Write a note on different types of cuttings
- 6 Write a note on Rhizome
- 7 Factors causing dormancy of seeds

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

- 1 Pseudo sexual reproduction
- 2 Discuss the influence of pollination on forest and trees. How pollination takes place in plants. Mention the detailed role of pollinators in pollination

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