

**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc (Hons.) Forestry 2013 Admission**  
**V<sup>th</sup> Semester Final - Examination- February-2016**

**Cat. No: Fmau.3106**

**Marks: 50.00**

**Title: Tree propagation and nursery technology (1+1)**

**Time: 2 hours**

**I State the following statements are True or False**

**(10 x 1=10)**

1. Strawberry is commercially propagated through cutting
2. Doob grass can be easily propagated by stolen
3. Presence of more than one embryo in a seed is known as poly embryony
4. Among rooting media sphagnum mass has highest water holding capacity
5. Embryo dormancy is usually noticed in the trees of temperate region
6. Portion above the cotyledon is radical
7. Pre formed roots are observed in jasmine
8. Vegetative propagated plants are not true to type
9. Methyl bromide is a soil fumigant
10. The most commercially used media for tissue culture work is M.S. media

**II Write short notes on any FIVE questions**

**(5 x 2=10)**

1. Root stock
2. Epigeal germination
3. Topworking
4. Self incompatibility
5. Protandry and protogyny
6. Plumule
7. Double fertilization

**III Write short essay on any FIVE questions**

**(5 x 4=20)**

1. Pre-requisites for establishment of a nursery
2. Methods for application of growth regulators
3. Causes and management of damping off in the nursery
4. Recalcitrant seeds
5. Methods of testing seed viability
6. Tetrazolium test
7. Mist propagation unit

**IV Write essay on any ONE**

(1 x 10 = 10)

1. Classify the land as per the All India Soil survey and land use planning
2. Explain the role of government and NGO agencies for reclamation of wastelands in India