

KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Forestry Degree Programme. 2014 Admission.
IVth Semester Final Examination-August.2016

Cat. No:Safo.2210

Marks: 50

Title: Tree seed technology (2+1)

Time: 2 hours

I Fill up the blanks

(10 x 1=10)

1. Seed pelleting is a seed treatment by which the size of the seed is ____ (increased)
2. Any two types of seed storage containers are _____, _____ (gunny bag/polythene bag/ tins)
3. Expansion of IDS method is _____ (Incubation-Drying-Separation)

State whether the following statements are True or False

4. For moisture estimation of seeds, the commonly used method is Freezing method
5. Reduction of temperature of seed storage condition will decrease the storability of seeds
6. Specific gravity separator works on the principle of size of the seeds

Define/Explain in one sentence

7. Seed testing
8. Clonal seed orchard
9. Seed graders
10. Seed viability

(5 x 2=10)

II Write short notes on any FIVE.

1. Orthodox seeds Vs. Recalcitrant seeds
2. Field inspection.
3. Germination value.
4. Double dormancy.
5. Seed ageing.
6. Seed dormancy breaking methods.
7. Angiosperms Vs. Gymnosperms.

(5 x 4=20)

III Write short essay on any FIVE

1. Explain about the seed certification standard for tree seeds.
2. Enumerate the factors affecting drying of orthodox seeds.
3. Explain the importance of tree seeds in forestry.
4. Narrate the process of PREVAC method.
5. What is seed deterioration? Detail Seed Deterioration Vs. Seed Vigour.
6. Explain the role of Seed Testing Laboratories under Seed Act.
7. Enumerate different seed extraction techniques suitable for tree seeds with examples.

IV Write Essay on Any ONE

(1 x 10=10)

1. Explain in detail about tree seed processing methods.
2. Give a detailed account of pollination and fertilization methods of angiosperms and gymnosperms.
