## KERALA AGRICULTURAL UNIVERSITY

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## B.Sc (Hons.) Forestry. 2013 Admission IV<sup>th</sup> Semester Final Examination- August-2015

Cat. No: Safo.2210 Title: Tree Seed Technology (2+1)	Marks: 50 Time: 2 hours
<ul> <li>I Fill up the blanks</li> <li>1. Group of vascular plants in which the ovules and seeds a (naked seed) within carpel are</li> <li>2. The original geographic area from which seed or other p</li> </ul>	
obtained is known as 3. ISTA stands for	
<ol> <li>4 test is used for quick estimate of seed viability.</li> <li>5. Storage of seeds in liquid nitrogen at -196<sup>o</sup> C is known as</li> <li>6. Seeds which cannot be dried to moisture contenta below 30 injury and are unable to tolerate freezing is known as</li> </ol>	per cent without
<ol> <li>Trees that have proven to be genetically superior by means o is called as tree</li> <li> sample is used for performing seed qua Testing Laboratory.</li> </ol>	
<ol> <li>9. Seed rules was enacted duringto implement</li> <li>1966.</li> <li>10. IDS refers totreatment.</li> </ol>	ent the Seed Act.
II Write short notes on any FIVE 1. Differences between angiosperms and gymnosperms pollination and fertilization	(5 x 2=10) with respect to

- Plus tree and Elite tree
- 2. Seed dressing and seed pelleting
- Physiological Maturity and Harvestable maturity
- Seed vigour and seed viability
- Seed production area
- Physical and biochemical indices of seed maturity

## ✓ √ rite short notes on any FIVE

III Explain the establishment and management of seed orchards

- Briefly explain basic steps in seed extraction and processing of tree species
- Explain the types and methods of seed collection for tree seeds
- Explain briefly on methods of drying and factors influencing drying of tree seeds

 $(5 \times 4 = 20)$ 

 $(1 \times 10 = 10)$ 

- Write briefly on various storage methods for tree seeds.
- Explain briefly about seed certification standards
- List out the sections in Seed Act, 1966

## Vrite essay on ANY ONE

IV

- 1. Write an essay on various types of seed dormancy and treatments to overcome seed dormancy
- 2. Define seed testing Explain the sampling methods ; types of seed sampling and procedure for testing physical purity , moisture content and seed germination

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