



KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Forestry 2017 Admission
III Semester Final Examination-January 2019

Safo.2105

Forest Seed Technology (2+1)

Marks: 50
Time: 2 hours

- I Fill in the blanks:** **(10x1=10)**
- 1 Seed is defined as a fertilized _____
 - 2 The process of transferring pollen grains from Anther to stigmatic surface is called -----
 - 3 Exposed ovules without any protective cover are found in _____
 - 4 Teak fruit is a _____
 - 5 The method of storing seeds at very low temperatures (below -180°C) is known as _____
- State whether the following statements are true or false**
- 6 During germination the plumule emerges first.
 - 7 TZ test is employed for testing the viability of seeds
 - 8 Initial selection of superior trees based on external features is referred as Genotypic selection.
 - 9 With the decrease in storage temperature, the longevity of seeds increases.
 - 10 Recalcitrant seeds can be stored for long duration in normal storage conditions
- II Write Short notes on ANY FIVE of the following** **(5x2=10)**
- 1 Aerial seeding
 - 2 Classification of seeds
 - 3 Seed Collection methods
 - 4 Harrington's rule of thumb
 - 5 Seed Orchards
 - 6 Seed Dormancy
 - 7 Conditions required for germination of seeds
- III Answer ANY FIVE of the following** **(5x4=20)**
- 1 Different modes of Pollination occurring in plants
 - 2 Factors affecting the longevity of seeds
 - 3 Seed deterioration and vigour test
 - 4 Sources for collection of quality seeds
 - 5 Seed testing procedures.
 - 6 Tree seed in afforestation programme
 - 7 Seed bank for conservation of germplasm
- IV Answer ANY ONE of the following** **(1x10=10)**
- 1 Seed certification in Forestry.
 - 2 Collection, processing, testing and storage of recalcitrant seeds
