



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

Safo.2207

Silviculture of Indian Trees (2+1)

Marks: 50

Time: 2 hours

(10x1=10)

1 Fill up the blanks

- 1 A tree species from your syllabus that shares the same family to which Kambagom/Irumbagam belongs is \_\_\_\_\_
- 2 Around \_\_\_\_\_ % germination is achieved in case of *Anogeisus latifolia*.
- 3 In case of \_\_\_\_\_ seed is not separated from the fruit, instead, one seeded segments of pods are sown in the nursery.
- 4 Scientific name of 'desert poplar' is \_\_\_\_\_.
- 5 In South Indian Moist Deciduous forests, when annual rainfall decreases from 2500 mm to 1200 mm then teak forms \_\_\_\_\_ percentage of the total forest crop composition.
- 6 \_\_\_\_\_ is a semi root parasite forest tree species.
- 7 Scientific name of an Australian origin forest tree species belonging to the family Proteaceae and commonly cultivated in south India is \_\_\_\_\_
- 8 Viviparous germination is common in \_\_\_\_\_
- 9 'Margosa oil' is extracted from \_\_\_\_\_
- 10 Sporadic and gregarious types of flowering behaviour are common in \_\_\_\_\_

Write short notes/answers etc on ANY FIVE

(5x2=10)

- 1 Distribution of *Tectona grandis* in India.
- 2 Why fodder made out of pure *Leucaena leucocephala* leaves should not be fed to the animals?
- 3 Phenology of *Pinus roxburghii*.
- 4 Economic importance of Reeds and Rattan.
- 5 Silvicultural characteristics of *Acacia mangium*.
- 6 Floristic composition in case of *Pterocarpus marsupium* forests.
- 7 Reasons of poor natural regeneration in case of Axle wood.

Answer any FIVE of the following.

(5x4=20)

- 1 Write down the origin and scope of cultivation of the following forest tree species in India:
  - a) *Eucalyptus globulus*
  - b) *Populus deltoides*
- 2 Explain in detail about 'Dying back' is a big hurdle in the natural regeneration of *Shorea robusta*.
- 3 Silvicultural system adopted in management of *Cedrus deodara* and technique of obtaining natural regeneration in this species.
- 4 Habitat and distribution of the following forest tree species:
  - a) *Dalbergia sissoo*
  - b) *Hopea parviflora*
- 5 Explain why pre sowing seed treatment is required in *Tectona grandis*. Write down in detail about the various pre sowing seed treatments in this species.
- 6 Reasons of seed dormancy in case of *Santalum album* and the techniques to break this dormancy. Explain the nursery raising practice to obtain healthy seedlings in this species.
- 7 Multi facial uses of *Azadirachta indica*.

Answer any ONE of the following

(1x10=10)

- 1 Natural and artificial regeneration of *Abies pindrow*.
- 2 Propagation methods in Poplars.

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