

KERALA AGRICULTURAL UNIVERSITY

B.Sc.Hons (Forestry) 2014 Admission
IIIrd Semester Final Examination-February -2016

Marks: 50.00

Time: 2 hours

(10 x 1=10)

Cat. No: Safo. 2106

Title: Silviculture of Indian Trees (1+1)

I Fill up the blanks

1. The self sown seedlings in natural forest is called _____
2. _____ is the main pinus species producing resin in India
3. *Cedrus deodara* is _____ plant
4. Mahagony, native to central America and Jamaica belongs to the family _____
5. The wood of Australian babul yields _____ calories of energy for 1 kg of wood
6. The seeds of aonla are _____ type which can open in sunlight
7. Based on longevity, the seeds of *Albizia lebbek* are _____ type
8. The root system of *Dalbergia species* are _____ in nature

Define the following:

9. Orthodox seeds
10. Hygrophilous

II Answer any Five questions

(5 x 2=10)

1. Comment on the hygrophilous nature of *Hopea Parviflora*
2. Silvicultural system and management of *Pinus roxburghi*
3. Cultural practices of *Santalum album*
4. Uses of Mahagony
5. Phenology of *Quercus species*
6. Rotations carried out in energy plantations
7. Biofuel species-advantages and its constraints

III Write short notes any Five questions

(5 x 4=20)

1. Economic importance of Bamboo in India
2. Management practices for Mahagony
3. Nursery techniques of *Dalbergia species*
4. Silvics of *petrocarpus marsupium*
5. Economic importance of *Lagestroemia lanceolatus*
6. Comment on nitrogen fixing trees
7. Silvicultural characteristics of *Ailanthus triphysa*

IV Write essay on Any ONE

(1 x 10=10)

1. Comment on hybrids of Eucalyptus, origin and distribution of Eucalyptus
2. Write in detail about Subabul and its role in soil and water conservation, why it is failed in recent years, explain