



KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry 2016 Admission

II Semester Final Examination-August-2017

Safo.1204

Theory and Practice of Silviculture (2+1)

Marks: 50
Time: 2 hours

I Define

(10x1=10)

- 1 Forest
- 2 Tree crown
- 3 Microclimate
- 4 Succession (with reference to vegetation)
- 5 Aspect (with reference to site)

Fill up the Blanks

- 6 Method of raising forest plantations in combination with field/agricultural crops is known as -----
- 7 The distance between the trees in a plantation is known as -----
- 8 The eating of any kind of standing vegetation by domestic livestock or wild animals is known as -----
- 9 The method of establishing a forest by artificial means on an area on which forest vegetation has been absent is known as -----
- 10 A community which differs from the climatic climax of the area owing to the influence of special soil characters is known as -----climax.

II Write short notes on any FIVE

(5x2=10)

- 1 Silvicultural systems
- 2 Volume production of trees
- 3 Improvement felling
- 4 Light demanding trees
- 5 Tending
- 6 Biotic factors
- 7 Weeds

III Answer any FIVE

(5x4=20)

- 1 List out the main points to be borne in mind while collecting seeds for use in nurseries.
- 2 Why is the knowledge of silvicultural systems important for a forest manger?
- 3 Why is an understanding of wind speed and wind direction important for a plantation manager?
- 4 Briefly describe the silvicultural system followed for sandal (*Santalum album*)?
- 5 Describe the silvicultural characteristics of teak.
- 6 How does fire affect forest health?
- 7 Why is weeding important in forestry?

IV Write essay on any ONE

(1x10=10)

- 1 Study of Silviculture in essential for scientific management of Forests. Justify (clue: objects of study of silviculture)
- 2 Describe the Sivicultural System followed for teak (*Tectona grandis*) in Kerala.
