



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons) Forestry 2018 Admission
II Semester Final Examination-August 2019

Safo.1204

Theory and Practice of Silviculture (2+1)

Marks: 50

Time: 2 hours

(10x1=10)

I Say TRUE or FALSE :

- 1 Forestry refers to art and science of cultivation of forest crop.
- 2 *Ficus* species is an example for prop root system.
- 3 *Arundinaria wightiana* is an annual flowering bamboo species.
- 4 Evergreen species generally undergo leaf senescence during winter.
- 5 Mono-climax theory was proposed by Whittaker.

Match the following

A

B

- | | |
|---------------------|------------------|
| 6 Light demander | a) Arjuna |
| 7 Evergreen | b) Khair |
| 8 Water logging | c) Neem |
| 9 Dry evergreen | d) Teak |
| 10 Frost resistance | e) Dipterocarpus |

II Write short notes on any FIVE of the following

(5x2=10)

- 1 Natural and artificial regeneration.
- 2 Primary and secondary succession.
- 3 Silvics and silvicultural system.
- 4 Anemophily and zoophily.
- 5 Pioneer and climax.
- 6 Pruning and singling.
- 7 Silviculture and forestry.

III Answer any FIVE of the following.

(5x4=20)

- 1 Objectives used while studying Silviculture.
- 2 Bases for classification of forests.
- 3 Sowing methods and planting design.
- 4 Different growth stages of tree.
- 5 Silviculture system followed in high forest system.
- 6 Initial causes for primary and secondary succession.
- 7 Importance of forests.

IV Answer any ONE of the following

(1x10=10)

- 1 Classify the forest types of India as per Champion and Seth by quoting typical tree species in each type.
- 2 What is Locality factor? Explain various locality factors play a vital role in forest formation.
