



KERALA AGRICULTURAL UNIVERSITY  
B.Sc. (Hons.) Forestry 2017 Admission  
I Semester Final Examination-March-2018

Fbti.1101

Dendrology (2+1)

Marks: 50  
Time: 2 hours

I **Fill in the blanks** (10x1=10)

- 1 *Species Plantarum* was published by -----in 1753
- 2 ----- is the duplicate specimen of the holotype, collected at the same time by the same person from the same place.
- 3 -----is the arrangement or distribution of leaves on the stem or its branches in such a way that they receive maximum sunlight to perform photosynthesis.
- 4 -----is the study of pollen grains in angiosperms .
- 5 ----- was published in three volumes between the years 1862 to 1883.

**State True or False**

- 6 Botanical nomenclature is **independent of Zoological and Bacteriological nomenclature.**
- 7 The application of botanical names is determined by means of **nomenclatural types.**
- 8 Only scientific names are universal, used the same world-wide
- 9 Series Thalamiflore belong to the subclass Monochlamydeae
- 10 Legitimate Names are always in accordance with the rules of the ICBN

II **Write Short notes on any FIVE of the following** (5x2=10)

- 1 Define phyllotaxy. Explain with suitable examples the different types of phyllotaxy
- 2 What are criteria of classification?
- 3 What is Herbalist classification system?
- 4 Enlist the Economic Importance of **Magnoliaceae:**
- 5 Write a short note on the importance of the following tree species: *Aegle marmelos*; *Alstonia scholaris*; *Cinammomam camphora*
- 6 Describe the salient characters of the family **Orchidaceae.**
- 7 Define Taxonomy

III **Answer any FIVE of the following.** (5x4=20)

- 1 What are the diagnostic features and economic importance of the family Lamiaceae
- 2 Bentham and Hooker system of Angiosperm classification
- 3 Brief description of the family Dipterocarpaceae
- 4 Write the economic importance of any two tree borne families you have studied. Give examples.
- 5 Role of vegetative morphology-in identification of woody Angiosperms
- 6 What is the floral differences between Sub-class Polypetalae and Sub-class Gamopetalae
- 7 Give two importance of classification.

IV **Write an essay on any ONE of the following** (1x10=10)

- 1 Herbarium and its importance
- 2 Merits and demerits of Bentham and Hooker system of plant classification

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