

**Avinashilingam Institute for Home Science and Higher Education for Women  
[Deemed to be University] Coimbatore-641 043**

**Bachelor's Degree Examination – November 2018**

**III Semester**

**Class : II UG  
Major : Botany**

**Time: 3 hours  
Max. Marks: 100**

**15BBOC08 Taxonomy and Economic Botany  
Part-A**

**10 x 1=10**

**Choose the correct answer**

1. The system of Bentham and Hooker includes the following number of families.  
a. 200                      b. 186                      c. 196                      d. 206
2. The classification proposed by Engler and Prantl is  
a. Natural                      b. Numerical                      c. Artificial                      d. Phylogenetic
3. Basic unit of classification is  
a. Genus                      b. Family                      c. Order                      d. Species
4. The largest herbarium of the world is located at  
a. Geneva                      b. New York                      c. Kew                      d. Berlin
5. Rutaceae differs from Malvaceae in having  
a. Syncarpous superior ovary                      b. Simple leaf  
c. Syncarpous inferior ovary                      d. Obdiplo stemonous stamens
6. Placentation in legumes are  
a. Basal                      b. Marginal                      c. Axile                      d. Free central
7. Gynobasic style is found in  
a. Gramineae                      b. Asteraceae                      c. Liliaceae                      d. Lamiaceae
8. Most diversified monocot family is  
a. Liliaceae                      b. Poaceae                      c. Orchidaceae                      d. Palmae
9. The part in cotton which is used as fibre is  
a. Testa                      b. Nucellus                      c. Epidermis of seed coat                      d. Endosperm
10. Finger millet is  
a. *Setaria italica*                      b. *Echinochloa colonum*  
c. *Panicum miliare*                      d. *Elucine coracana*

**Part B**  
**Answer the following**  
**Answer should not exceed 400 words or two pages**

**5 X 6=30**

- 11.a. Outline the scope of Plant taxonomy .  
(or)
- 11.b. Bring down the importance of Natural system of classification .
- 12.a. Write short notes on Taxonomic hierarchy .  
(or)
- 12.b. State the uses of herbarium.
- 13.a. Comment upon the corolla in Leguminosae.  
(or)
- 13.b. Give the distinguishing characters of Malvaceae.
- 14.a. Write down the floral characteristics of Rutaceae .  
(or)
- 14.b. What is Cyathium? Explain.
- 15.a. Give a brief account on Cereals?  
(or)
- 15.b. List out the alkaloids present in Rauwolfia .

**Part C**  
**Answer the following**  
**Answer should not exceed 800 words or four pages**

**5 x 12=60**

- 16.a. Describe the Bentham and Hooker's system of classification .  
(or)
- 16.b. Write down the main features of Takhtajan's system of classification.
- 17.a. Write an account on International Code of Botanical Nomenclature.  
(or)
- 17.b. Outline the technique involved in Herbarium preparation.
- 18.a. Describe the characteristic features of Rutaceae.  
(or)
- 18.b. Write down the floral and vegetative characters of Apiaceae.
- 19.a. Describe the inflorescence and flower of the family Poaceae.  
(or)
- 19.b. Analyze the floral characters, mode of pollination and systematic position of Fabaceae.
- 20.a. Mention and write the economic importance of some Pulses.  
(or)
- 20.b. List out the uses of Oil yielding plants.