

**Ph.D. IN LIFE SCIENCES  
(PHDLS)**

00213

**Term-End Examination**

**December, 2018**

**RLSE-121 : PLANT TAXONOMY**

*Time : 3 hours*

*Maximum Marks : 100*

*Note : Attempt all questions.*

1. List the principles of botanical nomenclature. Describe any one principle of your choice by citing its use with suitable examples. 10
  
2. (a) Give full forms of the following :  
ICBN, ICZN, ICNB, ICNP, ICVCN 5
  
- (b) Differentiate between phonetic and phylogenetic systems of plant classification. 5
  
3. Describe the characteristic features of family Apiaceae/Umbelliferae, giving diagrams and examples of plant species. Give floral diagram and floral formula of any one. 15

4. Define botanical key. How many types of keys are used in plant taxonomy ? Describe any one type of key with an example and its use. 10
5. What are the modern approaches applied in plant taxonomy ? Discuss how anatomical or embryological features can be used to solve taxonomic problems. 5+10
6. Discuss the significance of biodiversity. Discuss how plant diversity provides a wide range of products and services to the world. 20
7. Write notes on any **four** of the following : 4×5=20
- (a) Endemism
  - (b) Role of Numerical Taxonomy
  - (c) Hotspots
  - (d) Invasion of Plants
  - (e) Herbarium Techniques
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