

**2023**  
**M.Sc.**  
**Second Semester**  
CORE – 05  
**BOTANY**  
*Course Code: MBOC 2.11*  
(Angiosperm Taxonomy)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. (a) Explain why the correct name and classification of taxa are important in the study of plant diversity. 4  
(b) Discuss the conceptual basis of classification according to essentialism, nominalism, and empiricism. 10
2. (a) Describe the different phases of taxonomic progression in different parts of the world. 10  
(b) Define why a species is considered as a basic unit of taxonomy. 4

**UNIT-II**

3. (a) Give reasons for considering the Carolus Linnaeus system of classification a sexual system of classification. 4  
(b) Enumerate Bentham and Hooker system of classification and write its merits and demerits. 10
4. (a) Write a summary of Armen Takhtajan system of classification. 4  
(b) Write an account of the Ranalian school of thought on the phylogenetic system of classification. 10

**UNIT-III**

5. (a) What is taxonomic literature? Summarize the different kinds of taxonomic literature. 2+8=10

- (b) What are the important data collected during floristic studies? 4
6. What are taxonomic keys? Discuss the single -access and multi-access keys. 2+12=14

#### UNIT-IV

7. Discuss in detail the ICN principles. 14
8. (a) Enumerate the criteria and conditions of effective and valid publication. 10
- (b) Write the rules of principles of priority. 4

#### UNIT-V

9. Discuss the phylogenetic characteristics on any two of the following: 7×2=14
- (a) Nymphaeaceae
- (b) Eurosids-I
- (c) Euasterids-II
10. Elucidate the evidence that supports the monophyletic position on any two of the following: 7×2=14
- (a) Araceae
- (b) Malvaceae
- (c) Acanthaceae
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