

**May 2025**  
**M.Sc.**  
**Second Semester**  
**CORE – 05**  
**BOTANY**  
*Course Code: MBOC 2.11*  
(Angiosperm Taxonomy)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

**UNIT-I**

1. What is plants systematics? Discuss the different conceptual bases of classification. 3+11=14
2. What is a species? Explain the various approaches of species concept. 2+12=14

**UNIT-II**

3. Write a critical note on the following: 7×2=14
  - (a) The Englarian school of thought
  - (b) The Ranalian school of thought
4. Write the salient features and broad outline of Armen Takhtajan system of classification 14

**UNIT-III**

5. What are floristic studies? How do floras, monographs, and checklists serve as taxonomic literatures? 2+12=14
6. Describe single-access and multi-access taxonomic keys. How do computers aid in taxonomic studies? 9+5=14

**UNIT-IV**

7. Why is author citation important in botanical names? Discuss different types of author citation. 3+11=14

8. What is typification? Write on the different kinds of type specimens. 2+12=14

### UNIT-V

9. Explain the principles of APG system of classification. Write a brief overview of the APG-IV. 6+8=14
10. Briefly describe the following clades with a representative family:  
(a) Eurosids-I 7×2=14  
(b) Commelinids
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