# 2024
## M.Sc.
## Second Semester
CORE – 05
### BOTANY
*Course Code: MBOC 2.11*
(Angiosperm Taxonomy)

*Total Mark: 70*                                    *Pass Mark: 28*
*Time: 3 hours*

*Answer* <u>five</u> *questions, taking* <u>one</u> *from each unit.*

### UNIT–I

1. (a) Enumerate the objectives and importance of plant taxonomy. 6
   (b) What is an herbarium? Explain why herbarium is an important material in teaching and research. 8

2. (a) What is taxonomic hierarchy? Enumerate the various ranks in a hierarchical classification with example. 2+6=8
   (b) Explain the difference between phenetic and cladistics system of classification. 6

### UNIT–II

3. (a) Give reasons why natural system of classification is better than artificial system of classification. 4
   (b) Write an account on the Engler and Prantle system of classification. 10

4. (a) Write a broad outline of the Gertrud Dahlgren classification and its merits. 10
   (b) Write a summary on the APG system of classification. 4

### UNIT–III

5. What is a floristic survey? How do we conduct a floristic survey? What analysis can be drawn from a floristic data? 2+7+5=14

6.  (a) Write a brief account on computer aid taxonomic studies.        5
    (b) What types of taxonomic information's are obtained from flora,
        glossary and journals.        9

## UNIT–IV

7.  (a) When *Physkium natans* Lour., 1790 was transferred to genus
        *Vallisneria* as *Vallisneria physkium* Juss., 1826, the name
        *Vallisneria physkium* Juss., 1826, was rejected, explain why?        6
    (b) Discuss the significance of effective & valid publication and author
        citation.        8

8.  What is a type specimen? Write the different kinds of type specimens. 14

## UNIT–V

9.  (a) Describe the phylogenetic relationships between the ANA groups
        members.        10
    (b) Write the characteristic features of the asterid clade.        4

10. Summarized the characters based on which the following clades are
    considered monophyletic:        7×2=14
    (a) Monocots
    (b) Eudicots

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