

2022
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 taxonomy is important in plant diversity studies. 6
(b) Enumerate the classification concept of phenetics and cladistics. 8
2. (a) Explain why taxonomy is considered a synthetic discipline. 6
(b) Define taxonomic hierarchy. Classify the ranks and categories of taxa with examples. 8

UNIT-II

3. (a) Write a summary of the recent systems of classification. 4
(b) Write an account of the Englerian school of thought on the phylogenetic system of classification. 10
4. (a) Write an account of the system of classification based on morphology and form. 6
(b) State the principles of APG and its merits and demerits. 8

UNIT-III

5. (a) Discuss why the floristic study is needed. Enumerate the significant contributions made through floristic studies. 4+4=8
(b) Distinguish between monograph and floras. 6

6. (a) Which type of taxonomic key is user-oriented and why? 4
(b) Enumerate the guidelines for the construction of dichotomous taxonomic keys. 10

UNIT-IV

7. (a) What does it mean by the ICN principle “The application of names of taxonomic groups is determined by means of nomenclatural types”? 4
(b) According to ICN rules, the different nomenclatural types are recognized. 10
8. Write notes on the following: 7×2=14
(a) Author citation
(b) Rejection of names

UNIT-V

9. (a) Write an account of the phylogenetic relationship of the ANA grade? 8
(b) Summarise the distinguishing characters of the Magnoliids clade. 4
10. Discuss the evidence that supports the position of: 7×2=14
(a) Areaceae in Commelinids
(b) Sapotaceae in Asterids
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