

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021
(Regular/Improvement/Supplementary)

BOTANY

FBOT3C08 - ANGIOSPERM MORPHOLOGY, TAXONOMY AND PLANT RESOURCES

Time: Three Hours

Maximum Weightage: 30

Part A: All questions can be answered. Each carries *two* weightage (Ceiling 6 weightage).

1. Explain the biological concept of species.
2. Write the botanical name and chemical composition of *Tea* and *Cocoa*.
3. What are the steps involved in the preparation of herbarium?
4. Describe ancestral stock of Angiosperms.
5. What are monographs and floras?
6. Describe parallelism and convergence.
7. Distinguish phenetics from cladistics

Part B: All questions can be answered. Each carries *four* weightage (Ceiling 12 weightage).

8. Comment on monophyly and polyphyly.
9. Briefly explain DNA bar-coding in plants.
10. Give examples with botanical name and chemical composition of any three spices you have studied.
11. Explain the concept of taxonomic characters.
12. Provide the role of Botanical Gardens with details on Royal Botanical Garden and National Botanical Garden.
13. Briefly elucidate the role of floral anatomy in interpreting the origin and evolution of flower and floral parts.
14. Give brief account of typification and explain different nomenclature types.

Part C: All questions can be answered. Each carries *six* weightage (Ceiling 12 weightage).

15. Explain artificial and natural systems of classification.
16. Write an essay on the co-evolution of flowers and their pollinators.
17. Elucidate the salient Features and major provisions of the ICBN.
18. Evaluate the chemical and pharmacognostic properties of five medicinal plants you have studied.