

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020**  
**BOTANY**  
**FBOT3C08 - ANGIOSPERM MORPHOLOGY, TAXONOMY AND PLANT RESOURCES**

**Time: Three Hours**

**Maximum Weightage: 30**

**Part A: Answer any *four* questions. Each carries *two* weightage.**

1. Comment on co-evolution of flowers and their pollinators.
2. Explain Homology and Anology with examples
3. What is Species concept? Explain different type of Species concepts.
4. Explain Vicarious species and Compilo species with examples.
5. Give a short note on taxonomic literature.
6. Write notes on the major Beverages.
7. Write the Binomial family and Morphology of useful part of Fennel and Fenugreek.

**(4 × 2 = 8 weightage)**

**Part B: Answer any *four* questions. Each carries *three* weightage.**

8. Explain the Evolution of Carpel with diagrams.
9. Explain the Basal angiosperms and ANITA group.
10. Distinguish between Monophyly, Paraphyly and Polyphyly.
11. Explain Parallelism, Convergence and Divergence.
12. Explain the procedure of Numerical Taxonomy in detail.
13. Distinguish between Apomorphy, Plesiomorphy and Sympleiomorphy.
14. Explain the occurrence, morphology of useful part and overall chemical composition of Castor, Cluster bean and Cumin.

**(4 × 3 = 12 weightage)**

**Part C: Answer any *two* questions. Each carries *five* weightage.**

15. Write an essay on the theories of Floral Evolution in Basal Angiosperms .
16. Write an essay on the principles and rules of ICBN and its recent modifications. Explain different nomenclature types.
17. What is Phylogentic systems of classification? Briefly explain Engler and Prantle system of classification.
18. Write an essay on the medicinal plants that you have studied with reference to the chemical and pharmacognosic properties.

**(2 × 5 = 10 weightage)**