

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023
(Regular/Improvement/Supplementary)**

**BOTANY: COMPLEMENTARY COURSE FOR ZOOLOGY
GBOT3C03T: MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT
BREEDING AND HORTICULTURE**

Time: 2 Hours

Maximum Marks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)**

1. Distinguish between persistent and acrescent calyx.
2. What is classical systematics?
3. Briefly mention the contributions of Linnaeus.
4. Distinguish between primary and secondary metabolites.
5. What are quantitative multistate characters?
6. Write the binomial, family and morphology of useful part of fibre yielding plant.
7. What is mutation breeding?
8. Write any two demerits of mass selection.
9. Comment on disease resistance and disease susceptibility.
10. List out major steps behind the seed formation.
11. Distinguish between stock and scion.
12. Write two methods of budding practices.

**SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)**

13. Write on the merits and demerits of Natural System of classification.
14. Discuss ICN with special reference on its divisions.
15. Briefly discuss the collection of specimens for herbarium preparation.
16. Write the importance of botanical gardens.
17. Write the binomial, family and uses of any four plants in the category of beverages and spices.
18. Explain major objectives of plant breeding.
19. Discuss the different disciplines of horticulture.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. Explain different types of special inflorescence you studied with suitable illustrations.
21. Give an outline of Phylogenetic system of classification with its merits and demerits.

(1 x 10 = 10 Marks)