

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024**  
**(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 horticulture and agriculture.
2. Write any two hormones generally induce rooting.
3. Comment on zygomorphic flower.
4. Write the binomial and family of any two oil yielding plants.
5. List out the merits of pureline selection.
6. Write the economic importance of any two Malvacean members.
7. In *Mangifera indica* L., here L. stands for \_\_\_\_\_.
8. Comment on Artificial system of classification.
9. What do you mean by registered seed?
10. What is Karyogram or idiogram?
11. Define photoin sensitivity.
12. Expand IBPGR.

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

13. What are macromolecules? Write their importance in taxonomic analysis.
14. Explain floral characteristics of Caesalpiniaceae.
15. Distinguish between approach and tongue grafting methods.
16. Write on the merits and demerits of Phylogenetic system of classification.
17. Discuss on mutation breeding with its limitations and merits.
18. Enlist the diagnostic features of Euphorbiaceae.
19. Write the binomial, family and uses of any four plants in the category of beverages and spices.

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

20. Describe the different types of cymose inflorescence with appropriate illustrations.
21. Explain Numerical taxonomy with special reference to characters, OTUs, SMC and Similarity indices.

**(1 x 10 = 10 Marks)**