

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(Regular/Improvement/Supplementary)

BOTANY

GBOT5B07T: ANGIOSPERM MORPHOLOGY & SYSTEMATICS

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 Marks)

1. What is vexillary aestivation?
2. Define Character, character states and characteristics.
3. Comment on the androecium of Malvaceae.
4. What is gynostemium?
5. Write an account on Cluster analysis.
6. Comment on the diagnostic characters of Solanaceae.
7. What are secondary ranks of taxa?
8. Mention the contributions of Robert Wight.
9. Write notes on economic importance of Euphorbiaceae.
10. What are the uses of floral formula in taxonomy?
11. Comment on the fruit type of the family Poaceae.
12. Give the merits and demerits of rule of priority.

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30 Marks)

13. Explain the structure of an albuminous and ex-albuminous seeds with suitable diagrams.
14. Write a brief note on different types of taxonomic keys.
15. Comment on the pollination mechanism in Lamiaceae.
16. Discuss the different aspects of Molecular taxonomy and phylogenetics.
17. Write notes on different types of herbariums and their significance.
18. Comment on major botanical gardens in India.
19. Explain the structure of corolla in Fabaceae with a suitable diagram.

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

20. What are cymose inflorescences? Explain its types with suitable diagrams and examples.
21. Give an outline of Bentham and Hookers system of classification. Comment on its merits and demerits.

(1 x 10 = 10 Marks)