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S – 1941

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2023

Career Related First Degree Programme under CBCSS

Botany and Biotechnology

BB 1542 : ANGIOSPERM MORPHOLOGY AND SYSTEMATIC BOTANY

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions in **one** word or sentence.

1. Name the fruit type of Lamiaceae.
2. Give name and acronym of a national herbaria.
3. Write the generalised floral formula of Orchidaceae.
4. Define umbel.
5. Name any two national botanical gardens.
6. Explain apocarpous condition.
7. Name the placentation in Orchidaceae.
8. What is Gynostegium?
9. Identify the peculiarity of the date 1st May 1753.
10. Name the family having interpetiolar stipule.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Answer **any eight** questions, short answer (Not to exceed one paragraph)

11. Discuss the advanced characters of Asteraceae.
12. What is helicoid cyme?
13. Explain hypanthodium.
14. Explain the structure of labellum.
15. List out the diagnostic characters of Acanthaceae.
16. What is Corolla? Explain its function.
17. Comment on cremocarp.
18. What are Bracts and Bracteoles?
19. Explain papilionaceous corolla.
20. Define aestivation. Explain the aestivation of the Calyx of Asclepiadaceae.
21. What is the peculiarity of stamens in Malvaceae?
22. What is obdiplostemonous condition?

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** questions. Each question carries **4** marks. (Answer not to exceed **120** words)

23. Give the diagnostic characters of the family Nymphaeaceae. Add a note on its economical importance.

24. Explain the significance of chemotaxonomy.
25. Differentiate between isotype and neotype.
26. With suitable illustration, describe the structure of cyathium.
27. Comment on placentation and its types.
28. Compare and contrast the subfamilies of Leguminosae.
29. Explain how flowers can be grouped based on symmetry's provide examples.
30. Give the floral diagram and floral formula of Lillaceae and Orchidaceae.
31. Write the significance of Herbarium in taxonomic studies.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. Each question carries **15** marks. (Answer not to exceed **three** pages)

32. What is Nomenclature? Discuss the principle and major rules.
33. Give an account major National and International Herbaria and Botanic gardens.
34. Detail a natural system of classification with its merits and demerits.
35. With suitable illustrations, explain how fruits are classified.

(2 × 15 = 30 Marks)