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M – 1808

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2021

Career Related First Degree Programme under CBCSS

Group 2(a) Botany and Biotechnology

Core Course

BB 1542 ANGIOSPERM MORPHOLOGY AND SYSTEMATIC BOTANY

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions in a word or **one** to **two** sentences. Each question carries **1** mark:

1. Define Cytotaxonomy.
2. What is a thalamus?
3. Define hypogyny.
4. What is the use of a vasculum?
5. Name a plant family having epicalyx.
6. What is a floral formula?
7. Define a genus.

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8. What is corolline corona?
9. What is an accessory whorl?
10. Define an inflorescence.

(10 × 1 = 10 Marks)

SECTION – B

Answer any **eight** questions. Answer not to exceed **one** paragraph. Each question carries **2** marks.

11. What is aestivation? Mention its types.
12. Explain the importance of herbarium.
13. Distinguish between adelphy and syngeny.
14. Explain binomial nomenclature.
15. Describe the inflorescence of poaceae.
16. Comment on the features of papilionaceous corolla.
17. What is a dichasial cyme. Give example.
18. Explain the primitive characters of Annonaceae.
19. What is numerical taxonomy?
20. Explain the important vegetative characters of Rubiaceae.
21. Mention the scope of taxonomy.
22. Comment on APG system of classification.
23. What are albuminous seeds? Give example.

24. Describe the androecium of Cucurbitaceae.
25. What are pollinia? Give example.
26. What is an actinomorphic flower?

(8 × 2 = 16 Marks)

SECTION – C

Answer any **six** of the following. Answer not to exceed **120** words. Each question carries **4** marks.

27. Explain the floral characters of Solanaceae.
28. Mention the economic importance of Poaceae.
29. Comment on ICBN and its relevance.
30. Give a brief account on classification and its types.
31. Write a brief account on the role of Botanical Gardens.
32. Give the systematic position of Arecaceae. Add a note on its inflorescence.
33. Explain the salient features of Liliaceae.
34. Highlight the economic importance of Rutaceae.
35. Give the binomial and major uses of two medicinal plants from Euphorbiaceae.
36. Comment on the sexual system of classification proposed by Linnaeus.
37. Give the diagnostic features of Acanthaceae.
38. Mention the systematic position of Sapotaceae and the binomial of two edible plants.

(6 × 4 = 24 Marks)

SECTION – D

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

39. Give the outline of Bentham and Hooker's system of classification. Add a note on its major merits and demerits.
40. Write a detailed account on racemose and special types of inflorescence.
41. Describe the vegetative and floral characters of Asteraceae. Add note on its diagnostic features and economic importance.
42. Write a detailed account on fruits and their classification.
43. Explain routine herbarium technique. Give the list of a few major herbaria.
44. Describe the family Orchidaceae. Add a note on its salient features and economic importance.

(2 × 15 = 30 Marks)
