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Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2022

Career Related First Degree Programme under CBCSS

Group 2 (a) — Botany and Biotechnology

Core Course

BB 1542 – ANGIOSPERM MORPHOLOGY AND SYSTEMATIC BOTANY

(2019 Admission onwards)

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 chemotaxonomy.
2. What is an epigynous flower?
3. Name a plant family having interpetiolar stipule.
4. Define a species.
5. What is an exalbuminous seed?
6. What is a zygomorphic flower?
7. Write the function of pappus hairs.
8. What is taxonomy?
9. Define a floral diagram.
10. What is an involucre bract?

(10 × 1 = 10 Marks)

P.T.O.

SECTION B

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

11. Explain binomial nomenclature.
12. What is artificial system of classification?
13. Comment on the fruits of Apiaceae.
14. Explain the features of corolla in pea flower.
15. Comment on herbarium tools.
16. What is ICBN?
17. Describe the inflorescence of *Euphorbia*.
18. Give the systematic position of Cucurbitaceae.
19. What is obdiplostemonous condition? Give example.
20. Comment on the androecium of Malvaceae.
21. Give the binomial and family of Cashew nut.
22. What are Botanical Gardens?
23. Comment on molecular taxonomy and its significance.
24. What is meant by resupination? Give example.
25. Write brief notes on fumigation.
26. Comment on APG system.

(8 × 2 = 16 Marks)

SECTION C

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

27. Write an account on placentation and its types.
28. Explain the diagnostic characters of Rutaceae.
29. Comment on the major merits and demerits of Bentham and Hooker's system.
30. Explain the floral characters of Annonaceae.
31. Flower as a modified shoot — Justify.
32. Comment on systematic botany and its objectives.
33. Write a brief account on racemose inflorescence.
34. Give the binomial, family and uses of Teak.
35. Mention the systematic position and diagnostic characters of Acanthaceae.
36. Give the binomial, family and uses of Brinjal and Potato.
37. List out the economic importance of Poaceae.
38. Describe the parts of a typical angiosperm flower.

(6 × 4 = 24 Marks)

SECTION D

Answer any **two** questions. Answer not to exceed **3** pages. Each question carries **15** marks.

39. Write a detailed account on fruit and its classification.
40. Give a detailed account on Cymose and Special types of inflorescence.

41. Explain routine herbarium technique. Add details on its importance and mention a few major herbaria.
42. Describe the family Rubiaceae. Mention its systematic position, salient features and economic importance.
43. Comment on the systems of classification proposed by Linnaeus, Engler and Prantl.
44. Describe the vegetative and floral characters of Lamiaceae. Add details on its salient features and economic importance.

(2 × 15 = 30 Marks)
