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Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2022

First Degree Programme under CBCSS

Botany

Core Course

**BO 1541 : ANGIOSPERM MORPHOLOGY, SYSTEMATIC BOTANY,
ECONOMIC BOTANY, ETHNOBOTANY AND PHARMACOGNOSY**

(2018 Admission)

Time : 3 Hours

Max. Marks : 80

PART – A

Answer **all** questions.

1. Give the binomial and family of an ethanobotanically significant plant you have studied.
2. Define Taxon.
3. What is an essential whorl?
4. What is an Arboretum?
5. Define molecular taxonomy.
6. Name a family with ruminant endosperm _____.
7. Inflorescence in Poaceae is _____.

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8. Cyathium inflorescence is characteristic of which family
9. Name a family with pollinia.
10. Name an albuminous seed.

(10 × 1 = 10 Marks)

PART – B

Answer any **eight** questions.

11. Justify the statement that flower is a modified shoot.
12. What is phyllotaxy? Mention different types.
13. Give a short note on Effective and Valid Publication.
14. Define Tautonym and Synonym.
15. Write down the binomial and family of any of the spice you studied.
16. Differentiate holotype and lectotype.
17. Define an aggregate fruit with example.
18. Give the binomial and family of a plant with the source of drug is from rhizome.
19. Give a short note on any two medicinal plants giving importance to family and binomial.
20. Differentiate monadelphous and epipetalous stamens with examples.
21. What is adnation? Mention a family in which the phenomenon is noted.
22. Describe the flower in Orchidaceae.
23. Define a quincuncial aestivation cite an example.

24. Give the binomial of any two vegetables in cucurbitaceae.
25. Mention the primitive characters of Annonaceae.
26. Give the name of inflorescence you can see in Lamiaceae.

(8 × 2 = 16 Marks)

PART – C

Answer any **six** questions.

27. Give a brief account on the importance Herbarium.
28. Short note on author citation and rule of priority.
29. Comment on cymose types of inflorescence.
30. Compare the salient features of leguminosae and Anacardiaceae.
31. Short notes on Chemotaxonomy.
32. Mention the binomial, family and morphology of useful parts of cereals and millets.
33. Comment on legitimate and illegitimate names.
34. Categorise the types of flowers based on position of ovary.
35. Give a short note on albuminous and exalbuminous seeds with the help of examples.
36. What is Botanical garden? Mention its uses.
37. With the help of diagram explain the types of placentation.
38. Give a brief account on artificial system of classification.

(6 × 4 = 24 Marks)

PART – D

Answer any **two** of the following.

39. Explain with the help of illustrations the different types of Racemes inflorescence.
40. Discuss the floral characters of orchidaceae and liliaceae.
41. Discuss on the common plants used by tribes.
42. Compare the classification of Bentham and hooker and Engler and prantl.
43. Give a brief account on the simple fruits with suitable examples.
44. Explain the basic rules of ICBN.

(2 × 15 = 30 Marks)
