

(Pages : 3)

P – 2840

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2022

Career Related First Degree Programme under CBCSS

**Group 2 (a) : Botany and Biotechnology/ Group 2 (b) : Biotechnology
(Multimajor)**

**BV 1541.1/BB 1542 : ANGIOSPERM MORPHOLOGY AND SYSTEMATIC
BOTANY**

(2015 – 2017 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

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

1. Why is thyrsus?
2. Define quinquiflorous aestivation.
3. What is isotype?
4. Give an applications of taxonomy in agriculture.
5. Explain polyadelphous condition.
6. What is trimerous condition?
7. Name an International botanical garden.
8. Give details of any cytological character used in taxonomy.
9. What are acronyms?
10. Name the family having pollinia.

(10 × 1 = 10 Marks)

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SECTION – B

Answer any **eight** questions, Short Answer (Not to exceed **one** paragraph).

11. What are the diagnostic traits of the family Asteraceae?
12. With suitable illustrations, describe the internal structure of Hypanthodium.
13. Explain how taxonomy is important in plant breeding?
14. How chromosome morphology helps in resolving taxonomic problems?
15. Explain floral morphology of *Nymphaea*.
16. What is staminal corona?
17. Explain the fruit in Asteraceae and its dispersal mechanism.
18. What is etymology in plant taxonomy?
19. Write the identification characters of Rutaceae. Name any two economically important members from this family.
20. Explain the peculiar placentation in Cucurbitaceae.
21. Which are the fruits showing anemochory? Comment on its adaptations.
22. List out the differences between holotype and paratype.

(8 × 2 = 16 Marks)

SECTION – C

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

23. Comment on international Herbaria.
24. Compare and contrast Apocynaceae with Asclepiadaceae. List out their primitive characteristics.

25. Describe the fruit morphology in Curcubitaceae.
26. Explain valid the effective publications.
27. List out the general characters of the family Sapotaceae. Give binomial of any two economically important members its specific uses.
28. 'Poaceae is regarded as an advanced family'. Substantiate the statement.
29. Briefly describe the structure of an exalbuminous seed.
30. Comment on the significance of fruit characters in taxanomy.
31. What are aggregate and multiple fruits?

(6 × 4 = 24 Marks)

SECTION – D

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

32. Briefly explain the process of herbarium preparation.
33. Make a comparative analysis of Rubiaceae and Solanaceae.
34. Detail Bentham and Hookers system of classification. List out its merits and demerits.
35. With suitable illustrations, explain the classification of fruits. Mention examples of each type.

(2 × 15 = 30 Marks)
