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Reg. No. : ....

Name : ....

Fifth Semester B.Sc. Degree Examination, December 2024

Career Related First Degree Programme under CBCSS

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** the questions in a word or **one** or **two** sentences. Each question carries **1** mark.

1. What is vasculum?

2. Define a floral formula.

3. What is an albuminous seed?

4. List any two botanical gardens in India.

5. What is an involucral bract?

6. Define apocarpy.

7. What is an accrescent calyx?

8. Name a phylogenetic system of plant classification.

P.T.O.

9. What is corolline corona?

10. Define gynobasic style.

(10 × 1 = 10 Marks)

SECTION – B

Answer any **eight** questions. Each question carries **2** marks. (Answer not to exceed **1** paragraph)

11. What is meant by resupination? Give example.

12. List the economic importance of Arecaceae.

13. Enumerate the salient features of Euphorbiaceae.

14. What is a hypanthodium?

15. Comment on the fruits of Apiaceae.

16. What is opposite decussate phyllotaxy?

17. Explain the male reproductive structure in Cucurbitaceae.

18. What is hypogyny?

19. Explain the sexual system of classification proposed by Linnaeus.

20. What are pollinia? Give example.

21. Discuss the role of botanical gardens in conservation of biodiversity.

22. What is valid publication?

(8 × 2 = 16 Marks)

SECTION – C

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

23. Describe the corolla in Papilionaceae.

24. Write a note on floral peculiarities of orchids.

25. List out the merits of Bentham and Hooker's system of plant classification.

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26. Explain helicoid and scorpioid cyme with examples.

27. What are the diagnostic characters of Acanthaceae?

28. Mention the systematic position of Sapotaceae and the binomial of two edible plants.

29. Draw the LS and floral diagram of Malvaceae.

30. What is a herbarium? Discuss the importance of herbarium in taxonomy research.

31. Explain types of placentation with examples.

(6 × 4 = 24 Marks)

SECTION – D

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

32. Write a detailed account on fruits and their classification.

33. Describe Asteraceae in technical terms. Discuss the advanced characters of the family.

34. Describe the family Poaceae. Add a note on its systematic position and economic importance.

35. Give an account on modern trends in plant taxonomy.

(2 × 15 = 30 Marks)

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