

Reg. No

Name

23U359

B. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023

SEMESTER 3 : BOTANY (COMPLEMENTARY FOR ZOOLOGY)

COURSE : 19U3CPBOT3 : ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

(For Regular 2022 Admission and Improvement / Supplementary 2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. Name the alkaloid present in Tobacco.
2. Name a family which possess monothealous anthers.
3. Name the unique type of inflorescence of the family Apiaceae.
4. Name a false fruit.
5. What is Didynamous condition?
6. Give the binomial of commonly cultivated Wheat.
7. What is bilabiate corolla?
8. Name the alkaloid present in *Rauwolfia*.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Cite the major uses of *Catharanthus roseus*.
10. Define vexillary aestivation.
11. Name a herbarium in India.
12. What is the role of spices and condiments in our diet?
13. Explain the gynoeceium in Euphorbiaceae.
14. Write any four merits of Bentham and Hooker's system of classification.
15. Give four orchid varieties of high commercial value grown in Kerala.
16. What is binomial nomenclature? Give an example.

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

17. Explain different types of fruits with examples.
18. Discuss the properties and benefits of the medicinal plant, *Phyllanthus amarus*.
19. List out the importance and significance of herbarium?
20. Evaluate the advanced features of Lamiaceae.
21. Write briefly about the economic importance of the family Rutaceae with suitable examples.
22. Give the binomial family and morphology of useful point of any two spices mentioned in your syllabus

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

23. Write an essay on the floral features of the family Rutaceae. Draw flower LS, floral diagram and provide floral formula of a typical Rutaceae plant species.
24. Write an essay on different types of inflorescences. Cite examples for each type.
25. 'Man owes very much to plants in meeting his basic needs'. Substantiate this statement citing suitable examples.
26. Elaborate and explain the general characters of Arecaceae. Draw the flower L.S.

(10 x 2 = 20)