

Reg. No .....

Name .....

24U508

**B. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024**

**SEMESTER 5 : BOTANY**

**COURSE : 19U5CRBOT5 : ANGIOSPERM SYSTEMATICS AND ECONOMIC BOTANY**

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

Time : Three Hours

Max. Marks: 60

**PART A**

**Answer All (1 mark each)**

1. Name a plant family with Cyathium inflorescence.
2. Write the morphology of useful part of cotton.
3. What is meant by apomorphy?
4. Give an example for artificial system of classification.
5. Name an angiosperm family with monothealous anther.
6. What is the ethanobotanical use of *Trichopus zeylanicus*?
7. What is meant by placentation?
8. Write the morphology of useful part of cloves.

**(1 x 8 = 8)**

**PART B**

**Answer any 6 (2 marks each)**

9. Briefly describe the structure of Spikelet inflorescence.
10. Briefly explain about Flora with an example.
11. Write the family name and binomial of Orange.
12. Write the family name and binomial of brinjal.
13. Write the binomial of two plants used for shelter by village folks.
14. Write an account on the vegetative features of Rubiaceae.
15. How is the imbricate aestivation differing from quincuncial aestivation?
16. Write the family name and binomial of pumpkin.
17. Write the family name and binomial of Petunia.
18. Write the binomial and family of wheat.

**(2 x 6 = 12)**

**PART C**

**Answer any 4 (5 marks each)**

19. Explain the economic importance of Rutaceae.
20. Using schematic diagrams explain various symmetries found in angiosperm flowers.
21. Differentiate between ray florets and disc florets.
22. What are the principles and preamble of ICBN 1983?
23. Give an account on insecticide yielding plants.
24. Explain the floral features of Arecaceae.

**(5 x 4 = 20)**

**PART D**

**Answer any 2 (10 marks each)**

25. With the help of suitable diagrams explain the vegetative and floral features of Fabaceae.
26. Describe the interdisciplinary approaches in taxonomic studies.
27. "Write an essay on following groups of plants based on their uses with special reference to the botanical name, family and morphology of the useful part; two cereals, one millet, one sugar yielding and two oil yielding plants"
28. With the help of suitable diagrams, explain the general characters of Solanaceae. Write an account on its economic importance.

**(10 x 2 = 20)**