

21U312

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Name: .....

Reg.No: .....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U BOT3 C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING & HORTICULTURE**

(Botany - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. What is cyathium?
2. Differentiate between synandrous stamens and syngeneious anthers.
3. Briefly explain the artificial system of classification.
4. Write notes on chemotaxonomy.
5. Write the binomials of two pulses that you have studied.
6. Name the economically important plants in the family Fabaceae.
7. Write notes on gynoecium in Apocynaceae.
8. Write a short note on the inflorescence of Poaceae.
9. Describe the gynoecium in Malvaceae.
10. Write the binomials of two spices that you have studied.
11. Briefly explain intergeneric hybridization.
12. Why grafting is not successful in monocots?

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Explain the types of venation you have studied.
14. Describe the steps involved in the preparation of standard herbarium.
15. Important characters of the family Rubiaceae.

16. What are the important floral characters of Euphorbiaceae?
17. Explain the binomial, family, morphology of useful part and uses of rubber.
18. Explain polyploidy breeding.
19. Explain air layering.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any *one* question. The question carries 10 marks.

20. Compare the sub families of Caesalpiniaceae and Mimosaceae.
21. Explain different types of selection in plant breeding.

**(1 × 10 = 10 Marks)**

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