

23U312

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Name: .....

Reg.No: .....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U BOT3 C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING AND 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. Explain whorled phyllotaxy with example.
2. Describe hypanthodium with an example.
3. Name any two chemicals used for the poisoning of specimens.
4. Briefly explain natural system of classification.
5. Comment on the valid publication of botanical name.
6. Comment on the stipules of Rubiaceae.
7. Write notes on gynoeceium in Euphorbiaceae.
8. Draw the spikelet in Poaceae.
9. Binomial of two cereals that you have studied.
10. Write the binomials of two spices that you have studied.
11. What is plant introduction? Cite an example for introduced crop.
12. What is meant by vegetative propagation?

**(Ceiling: 20 Marks)**

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

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

13. What is placentation? Explain the different types with diagrams.
14. Enumerate the characteristic features of family Fabaceae.
15. Explain the characteristic features of family Mimosaceae.
16. What are the important floral characters of Apocynaceae?

17. Explain the binomial, family, morphology of useful part and uses of Rauvolfia serpentina and Santalum album
18. Describe polyploidy breeding. What are their applications in crop improvement?
19. Explain different types of budding.

**(Ceiling: 30 Marks)**

**Part C** (Essay questions)

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

20. Explain the characters of the family Malvaceae.
21. Define hybridization and describe the process of hybridization.

**(1 × 10 = 10 Marks)**

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