

19U311

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Name:

Reg.No:

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS - UG)

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

(Botany - Complementary Course)

(2019 Admission - Regular)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 2

Part A (Short answer questions)

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

1. Define phyllotaxy. Mention the different types with examples.
2. Explain the symmetry of flowers.
3. Briefly explain the artificial system of classification.
4. Differentiate between cytotaxonomy and chemotaxonomy?
5. Write the general floral formula of Malvaceae.
6. What is decendingly imbricate aestivation.
7. Draw the floral diagram of Caesalpiniaceae.
8. Describe the inflorescence in Poaceae with diagram.
9. Binomial of two cereals that you have studied.
10. Comment on the medicinal importance of Rauwolfia serpentina.
11. Write notes on mutation breeding.
12. What is meant by vegetative propagation?

(Ceiling: 20 Marks)

Part B (Short essay questions)

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

13. What are the different types of inflorescences?

14. Explain the method of herbarium preparation.
15. Give the diagnostic characters of Rubiaceae.
16. Floral characters of the family Apocynaceae.
17. Write the binomial, family and morphology of useful part of the following: (a) cotton (b) clove
18. Compare mass selection with pureline selection.
19. Explain air layering.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Describe the vegetative and floral features of Euphorbiaceae. Give an account on economic importance of the family.
21. What is hybridization? Describe its importance as a method of crop improvement.

(1 × 10 = 10 Marks)
