

18U342

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Name:

Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2019

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

**CC15UBOT3C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC
BOTANY, PLANT BREEDING AND HORTICULTURE**

(Botany - Complementary Course)

(2015 Admission onwards)

Time: Three Hours

Maximum: 64 Marks

Draw diagrams only when specified

PART A

Answer *all* questions. Each question carries 1 mark.

1. The type of inflorescence in *Leucas* is
2. Name a chemical mutagen.
3. refers to prophylactic methods to prevent the arrival and spread of new diseases, insects, and weeds from other countries.
4. Most of the pulses belong to the family
5. Name the fruit in Poaceae.
6. The binomial of tea is
7. In the floral formula superior ovary is represented by
8. is the branch of horticulture concerned with the production of vegetables.
9. Scion is
10. Who is the father of plant taxonomy?

(10 x 1 = 10 Marks)

PART B

Answer any *seven* questions. Each question carries 2 marks.

11. Compare allopolyploids and auto polyploids.
12. Define phyllotaxy. Mention the different types.
13. Write a short note on imbricate aestivation.
14. Write the binomials of two spices that you have studied.
15. What is ICBN?
16. Explain umbel inflorescence.
17. What does M₁, M₂, M₃ and M₄ represent?
18. Name two important Botanical gardens in India.

19. Differentiate grafting from budding.

20. What is 'Triticale'?

(7 x 2 = 14 Marks)

PART C

Answer any *six* questions. Each question carries 4 marks.

21. What is placentation? Explain the different types with diagrams.

22. Describe the characters of the family Euphorbiaceae.

23. Briefly explain the modern trends in taxonomy.

24. Explain grafting and its advantages.

25. Compare mass selection with pureline selection.

26. With diagrammatic sketches explain any two special types of inflorescence.

27. Write the binomial, family and morphology of the useful part of two oil yielding plants.

28. Describe the steps involved in the preparation of standard herbarium.

(6 x 4 = 24 Marks)

PART D

Answer any *two* questions. Each question carries 8 marks.

29. What is an inflorescence? Describe the various types of racemose inflorescence with suitable diagrammatic sketches.

30. What is hybridization? Describe its importance as a method of crop improvement.

31. Compare the sub families of Fabaceae.

(2 x 8 = 16 Marks)
