

**19U342S**

(Pages: 2)

Name: .....

Reg. No.....

**THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CUCBCSS-UG)

**CC15U BOT3 C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC  
BOTANY, PLANT BREEDING & HORTICULTURE**

(Botany - Complementary Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 64 Marks

*Draw diagrams only when specified.*

**Part A**

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

1. Unit of inflorescence is spikelet in the family .....
2. Binomial of clove is .....
3. The method adopted to prevent self pollination in hybridization procedure is .....
4. Name the amphidiploid obtained by the first intergeneric cross.
5. .... venation is characteristic to monocots.
6. Cyathium inflorescence is found in the family .....
7. Name the fruit of Poaceae.
8. Linnaeus' system of plant classification is .....
9. Arrangement of leaf on the stem is .....
10. Marginal placentation is a characteristic feature of ..... family

**(10 x 1 = 10 Marks)**

**Part B**

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

11. Capitulum inflorescence.
12. Papilionaceous corolla.
13. Binomial and family of Gingelly and Cardamom.
14. Imbricate aestivation.
15. Monoecious and dioecious plants.
16. Cytotaxonomy and its significance.
17. Importance of Quarantine in plant breeding.
18. Floral diagram and floral formula.
19. Describe rule of priority.
20. Polyploidy breeding.

**(7 x 2 = 14 Marks)**

### **Part C**

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

21. Explain different types of racemose inflorescence.
22. Briefly explain the procedure of herbarium preparation.
23. Write a brief account of ICBN.
24. Compare the flowers of the subfamilies of Fabaceae.
25. Explain the procedure of resistance breeding.
26. Explain different types of aestivation.
27. Draw the floral diagram of Rubiaceae and write down the floral formula.
28. Explain distant hybridization.

**(6 x 4 = 24 Marks)**

### **Part D**

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

29. What are the important characters of family Malvaceae? Give the binomial of any two economically important plants belong to this family.
30. Mention the principles of the classification of flowering plants proposed by Bentham and Hooker. Bring out its merits and demerits.
31. Describe the importance of mutation breeding as a method of crop improvement.

**(2 x 8 = 16 Marks)**

\*\*\*\*\*