C 31172

Name...............................

Reg. No..............................

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS—UG)

Complementary Course

BOT 3C 03—SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING AND HORTICULTURE

Time : Three Hours

Maximum : 64 Marks

Part A

Answer all *questions.*

Answer in *one word* :

1. Define adhesion.

2. Give an example for phylogenetic system of classification.

3. Name the family having interpetiolar stipules.

4. Define floriculture.

5. Name a botanic garden in Kerala.

6. What is T-budding ?

7. Define papilionaceous corolla.

8. What is scion ?

9. The morphology of useful part of Cardamom is ————.

10. ———— is the binomial of Black gram.

(10 × 1 = 10 marks)

Part B

Answer any seven questions.

11. What is cyathium ?

12. Describe binomial nomenclature.

13. Write the general floral formula of Malvaceae.

14. Explain the types of venation you have studied.

15. Comment on the valid publication of botanical names.

Turn over

16. Write the binomial, family and morphology of the useful part of the following plants.

    (a) Gingelly.   (b) Clove.

17. What is plant introduction? Cite an example for introduced crop.

18. Comment on the medicinal importance of *Rauvolfia serpentina*.

19. Differentiate between actinomorphic and zygomorphic condition.

20. Describe approach grafting.

$$(7 \times 2 = 14 \text{ marks})$$

Part C

Answer any six of the following.

21. Give a brief account on 'International Code of Botanical Nomenclature'.

22. Describe air layering with diagrams.

23. Describe the various types of aestivation you have studied.

24. Give a brief account on numerical taxonomy.

25. Give the binomial, family, morphology of the useful part and uses any two beverages.

26. Describe the procedure and applications of polyploidy breeding.

27. Give the diagnostic characters of Rubiaceae.

28. Describe the herbarium techniques.

$$(6 \times 4 = 24 \text{ marks})$$

Part D

Write essay on any two of the following.

29. Write an essay on different vegetative propagation methods employed in horticulture.

30. Give an outline of Bentham and Hooker's system of classification. Add a note on its merits and demerits.

31. Describe the vegetative and floral features of Euphorbiaceae. Give an account on economic importance of the family.

$$(2 \times 8 = 16 \text{ marks})$$