17U338 (Pages: 2) Name: …….……

Reg. No……

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

CC15U BOT3 C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING & 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 pattern of leaf arrangement on stem and branches is called ……
2. The type of inflorescence in *Cocos* is ……
3. What is aestivation?
4. Expand ICBN.
5. World's largest botanical garden.
6. Binomial of rubber.
7. What is a clone?
8. What is Emasculation?
9. Define T- budding.
10. Name the useful part of clove.

(10 x 1 = 10 Marks)

PART B

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

11. Explain the symmetry of flowers.
12. Describe floral diagram and floral formula.
13. Briefly explain the artificial system of classification.
14. Name the economically important plants in the family Fabaceae.
15. Write down the binomial, family and useful part of two beverages.
16. Briefly explain intergeneric hybridization.
17. Explain air layering.
18. What are identifying characters of the family Apocynaceae?
19. Describe the spikelet in Poaceae.
20. Explain OTU.

(7 x 2 = 14 Marks)

PART C

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

21. Explain different types of placentation with examples.
22. Describe chemotaxonomy.
23. Explain the special types of inflorescences with examples.
24. Name the binomial, family and morphology of useful part and uses of two spices.
25. Explain the methods of grafting.
26. Explain polyploidy breeding.
27. Describe the merits and demerits of Bentham and Hooker's classification.
28. Major aspects of seed propagation.

(6 x 4 = 24 Marks)

PART D

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

29. Explain the characters of the family Malvaceae.
30. Describe Herbarium preparation and significance.
31. Explain different types of selection in plant breeding.

(2 x 8 = 16 Marks)

****