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Reg. No. : .....

Name : .....

Fourth Semester B.Sc. Degree Examination, July 2019

First Degree Programme Under CBCSS

Complementary Course

BO 1431: SYSTEMATIC BOTANY, ECONOMIC BOTANY, ETHNOBOTANY, PHARMACOGNOSY AND PLANT BREEDING

(For Zoology Homescience and Biochemistry)

(2013 Admission)

Time : 3 Hours Max. Marks : 80

I. Answer the following. **All** questions are compulsory

1. Assign *Tectona* to its family.

2. How can you represent a gynoecium with 5 united carpals with inferior ovary in the floral formula?

3. Name the fruit in *Eupatorium*.

4. What is the morphology of cotton?

5. Which tribe traditionally uses *Trichopus ceylanicus*?

6. What is test cross?

7. Name the structure of fruit in Apocynaceae.

8. Write the botanical name of Banana.

9. Name any one agency involved in plant introduction in india

10. Sesame oil is obtained from which part of the plant?

(10 × 1 = 10 Marks)

II. Answer any **eight** of the following

11. Write the binomial, family and useful parts of any two spices seen in Kerala.

12. Describe the structure of statements in Malvaceae.

13. Write the floral formula of Annonaceae.

14. Describe the gynoecium of Apocynaceae.

15. Construct the floral diagram of Liliaceae.

16. Write the binomial of any two tuber crops you have studied.

17. Write the scope of Pharmacognosy.

18. Describe the androecium of Asteraceae.

19. Define polyploid breeding.

20. Describe Cyathium with diagram.

21. What is selection?

22. Describe the use of Neem.

(8 × 2 = 16 Marks)

III. Answer **any six** of the following

23. Describe the salient characters of Rubiaceae. Construct the floral diagram and final formula.

24. Describe any three kinds of aestivation? Draw pictures and add examples.

25. With the help of diagrams describe any four kinds of racemose inflorescence.

26. Write a short note on artificial classification.

27. Write note on any four kinds of plant drugs? Cite examples.

28. Describe the floral features of Annonaceae.

29. What are the economic importance of Poaceae.

30. Write the binomial, family and morphology of the following plants

a) Jack fruit, b) Turmeric, c) Asafoetida, d) Pepper.

31. Describe the petals of Leguminosae with neat diagrams.

(6 × 4 = 24 Marks)

IV. Write essay on **any two** of the following:

32. Describe the salient features of Verbenaceae with diagrams. Add a note on their economic importance.

33. Describe the various methods of vegetative propagation.

34. Describe different types of Racemose inflorescences with suitable examples and diagrams.

35. Explain the steps involved in the hybridization process.

(2 × 15 = 30 Marks)
