

(Pages : 3)

M – 1507

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2021

First Degree Programme under CBCSS

Botany

Core Course

**BO 1541 – ANGIOSPERM MORPHOLOGY, SYSTEMATIC BOTANY,
ECONOMIC BOTANY, ETHNOBOTANY AND PHARMACOGNOSY**

(2014, 2016 and 2017 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions. **All** questions carry **equal** marks:

1. What is aestivation?
2. Mention any two Botanic Gardens in Kerala
3. How is chemotaxonomy useful?
4. What is obdiplostemonous condition?
5. What do you mean by labellum of Orchids?
6. Mention the botanical name and family of Hing.
7. Define Pharmacognosy.
8. What is retinaculum?

P.T.O.

9. What is a Perigynous flower?
10. The family to which *Ficus religiosa* belongs.

(10 × 1 = 10 Marks)

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

11. Enumerate diagnostic characters of the family Annonaceae
12. Briefly explain gynoeceium in Asclepiadaceae.
13. Describe the mechanism for seed expulsion in Acanthaceae
14. Distinguish Verbenaceae from Lamiaceae
15. Explain the ethnobotanical importance of *Aegle marmelose*.
16. Enumerate the floral characters of Nymphaeaceae.
17. Describe the common medicinal uses of 'Arogyappacha'
18. What is ICBN?
19. Mention the distinguishing characters of Poaceae
20. Write the botanical names and family of two dye yielding plants.
21. Give the botanical description of Paddy
22. Write the binomials of any four economically important plants of the family Cucurbitaceae

(8 × 2 = 16 Marks)

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

23. Which are the examples of crude drug obtained from roots and leaf source?
24. Write an account on the major spices and pulses cultivated in Kerala citing examples.

25. Why chemotaxonomy is used generally for classification of plants?
26. Briefly explain artificial system of classification.
27. How do you describe a floral formula?
28. Write the botanical name and morphology of useful parts of the source plants of Sugarcane and Sesame.
29. What is binomial nomenclature? Why is Binomial Nomenclature Important?
30. Explain Phylogenetic system of classification
31. Explain the uses of herbaria in botanical research.

(6 × 4 = 24 Marks)

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

32. Flower is a modified shoot. Justify this statement by giving evidences in support.
33. Why Bentham and Hooker system of classification is called a natural system of classification? Explain Bentham and Hooker system of classification.
34. Explain the importance, scope and significance of Ethnobotany in modern times.
35. Discuss about (a) Family characters (b) Economic Importance and (c) Affinities of Asteraceae

(2 × 15 = 30 Marks)
