

Reg. No. :

Name :



Fifth Semester B.Sc. Degree Examination, December 2023

First Degree Programme under CBCSS

Botany

Core Course

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

(2019 Admission onwards)

Time : 3 Hours

Max. Marks : 80

(Draw diagrams wherever necessary)

PART – A

- I. Answer **all** questions in one or two sentences. Each question carries **1** mark.
1. What is reticulate venation?
 2. What is a coenanthium?
 3. What are exalbuminous seeds? Give an example.
 4. Mention any one identifying feature of Sapotaceae.
 5. What are the characteristic features of stamens in Liliaceae?
 6. What is a hypanthium?
 7. Name the binomial of Bengal gram.

P.T.O.

8. Name a resin obtained from angiosperms.
9. List one use of *Ficus religiosa*.
10. Name a crude drug obtained from fruits.

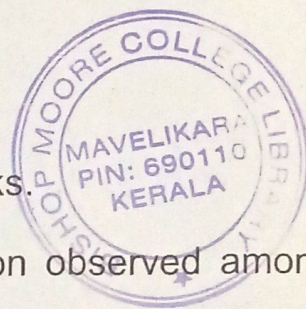
(10 × 1 = 10 Marks)

PART – B

- II. Answer **any eight** of the following. Each question carries **2** marks.
11. Compare epigyny and perigyny.
 12. Differentiate between parietal and axile placentation with examples.
 13. What is Hypanthodium? Provide an example.
 14. Identify the disadvantages of Bentham and Hooker system of classification.
 15. Define binomial nomenclature.
 16. Describe the features of androecium in Myrtaceae.
 17. Explain the features of gynoecium in Apiaceae.
 18. What is the characteristic aestivation of *Caesalpinia* flower?
 19. Provide the binomials of two tuber crops.
 20. Write down the binomial and family of tea.
 21. List two plants used by tribes for shelter.
 22. List two crude drugs obtained from leaves.

(8 × 2 = 16 Marks)

PART – C



- III. Answer **any six** of the following. Each question carries **4** marks.
23. Provide a brief description of the different types of cohesion observed among stamens, along with examples.
 24. What is a verticillaster? Give an example.
 25. Describe the Engler and Prantl system of classification. Add a note on its merits and demerits.
 26. Write a brief account on Chemotaxonomy.
 27. Explain the non-essential whorls of Asteraceae.
 28. Explain the identifying features of Poaceae.
 29. Explain the essential whorls of Rutaceae.
 30. Mention the family, useful part, and uses of any two spices.
 31. Mention the family, useful part, and uses of *Trichopus zeylanicus*.

(6 × 4 = 24 Marks)

PART – D

- IV. Write essay on **any two** of the following. Each question carries **15** marks.
32. Compare essential whorls in Verbenaceae and Lamiaceae using labelled diagrams.
 33. Illustrate the various types of aggregate fruits with examples.
 34. Explain the primitive and advanced morphological features of Orchidaceae.
 35. What are the features of a racemose inflorescence? Explain different types of it with examples.

(2 × 15 = 30 Marks)