



K25U 2313

Reg. No. :

Name :

**V Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/
Improvement) Examination, November 2025
(2019 to 2023 Admissions)
CORE COURSE IN BOTANY/PLANT SCIENCE
5B06BOT/PLS : Angiosperm Systematics and Ethnobotany**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Objective type questions)**

Answer **all**.

(4×1=4)

1. The primary basis of grouping plants in *artificial system of classification*
 - a) Phylogenetic relationships
 - b) Morphological similarity in one or few characters
 - c) Genetic sequences
 - d) Ecological distribution
2. In botanical nomenclature, "Type" refers to
 - a) A specimen or illustration to which the name of a taxon is permanently attached
 - b) The most common plant in a family
 - c) Any plant with medicinal value
 - d) The largest specimen in a herbarium
3. Family with trimerous flowers, inferior ovary and zygomorphic flowers
 - a) Orchidaceae
 - b) Liliaceae
 - c) Rubiaceae
 - d) Poaceae
4. The process of confirming the efficacy of traditional medicinal plant uses through laboratory and clinical research is called
 - a) Ethnobotany
 - b) Scientific validation
 - c) Bio-prospecting
 - d) Intellectual property registration

**PART – B
(Short essay questions)**

Answer **any eight**.

(8×2=16)

5. Give a brief account of Linnaeus' system of classification and its significance.
6. Describe the principle of priority in plant nomenclature.

P.T.O.

K25U 2313



7. Comment on monograph and its uses in taxonomy.
8. Discuss the role of botanical gardens in plant conservation and taxonomy.
9. Explain the significance of standard botanical names in taxonomy.
10. Discuss the medicinal and timber value of plants from Combretaceae.
11. Interpret the floral adaptations of Apocynaceae to insect pollination.
12. Describe the diagnostic floral features of the family Annonaceae.
13. Summarize the diagnostic floral features of family Acanthaceae.
14. Explain the economic and ornamental importance of Zingiberaceae.
15. Discuss the role of Poaceae family in global food security.
16. Discuss the role of fodder plants in sustaining livestock among the tribal communities.

**PART – C
(Essay questions)**

Answer **any four**.

(4×3=12)

17. Differentiate between natural and phylogenetic systems of classification with examples.
18. Write a brief account of the International Code of Nomenclature (ICN) for algae, fungi and plants.
19. Describe the identifying characters of Anacardiaceae and name at least three economically important plants from this family.
20. Explain the economic importance of Apiaceae in culinary and medicinal fields.
21. Describe the identifying characters of Euphorbiaceae and its economic role in oil and latex production.
22. Explain the use of plant resources for non-food livelihood activities used by the tribes.

**PART – D
(Long essay questions)**

Answer **any one**.

(1×8=8)

23. Write an account of the floral morphology of Orchidaceae with special reference to pollination adaptations.
24. Describe and illustrate the floral characters of a spikelet and explain the peculiarities of its pollination.
25. Write an essay on the traditional knowledge of plants used in food and medicine by the major tribes of North Malabar.