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V – 5940

Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, August 2025

Botany

**BO 521 : TAXONOMY OF ANGIOSPERMS, ECONOMIC BOTANY AND
ETHNOBOTANY**

(2024 Admission)

Time : 3 Hours

Max. Marks : 75

Instruction : Draw diagrams wherever necessary.

- I. Answer **all** questions.
1. Give an example of a phylogenetic system of classification.
2. What is a monograph? Give an example.
3. What is an indented key?
4. List any two objectives of BSI.
5. What is molecular taxonomy?
6. List of the Pteridospermean characters noticed in the origin of angiosperms.
7. What are the uses of *Glycyrrhiza*?
8. Mention the binomial of any two tuber crops.
9. List the main contributions of E Janki Ammal.
10. Name any two plants traditionally used for oils by ethnic groups.

(10 × 1 = 10 Marks)

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II. Answer the following questions.

11. (a) What is a supra specific category? Give an example.

OR

- (b) What is APG system of classification? Add a note on its merits.

12. (a) What is principle of priority? Add a note on its limitations.

OR

- (b) Explain the contributions of J.D. Hooker.

13. (a) Write a short note on Central National Herbaria, Calcutta.

OR

- (b) List any two principles of phylogenetic systematics.

14. (a) Enlist the uses of palm sugar.

OR

- (b) List any two diagnostic features of Rhizophoraceae.

15. (a) Explain the documentation of ethnobotanical research by videorecording. Add a note on its merits and demerits.

OR

- (b) Write a note on the unique custom and beliefs of Kurichiya.

(5 × 2 = 10 Marks)

III. Answer the following questions in not more than 150 words.

16. (a) What is a species concept? Add a note on different types of species concept.

OR

- (b) Discuss the merits and demerits of artificial system of classification.

17. (a) Explain the importance of Tropical Botanical Garden, Trivandrum in taxonomic studies.

OR

- (b) Explain the role of Numerical taxonomy in plant taxonomy.



18. (a) Differentiate between androecium in Boraginaceae and Solanaceae.

OR

(b) Describe the androecium and gynoecium in Araceae.

19. (a) Write down the ecological adaptation of Loranthaceae members.

OR

(b) Discuss the diagnostic characters of Caryophyllaceae.

20. (a) Discuss the floral characters and pollination seen in Piperaceae.

OR

(b) Compare the essential whorls of Melastomaceae and Dipterocarpaceae.

21. (a) Discuss the uses of rose wood and teak wood.

OR

(b) Describe the morphology of the useful part and uses of Pepper and ginger.

22. (a) Explain any two herbal products used by ethnic community. Add a note on its uses.

OR

(b) What is IPR? Mention its relevance in Ethnobotany.

(7 × 5 = 35 Marks)

IV. Answer the following questions in not more than **250** words.

23. (a) Explain in detail the phylogenetic system of classification. Comment on its merits and demerits.

OR

(b) Define Herbarium. Describe the techniques involved in the preparation of Herbarium.

24. (a) Explain in detail typification and different kinds of types used in nomenclature.

OR

(b) How can you distinguish Polygalaceae from Sapindaceae based on their morphological and floral characteristics?

(2 × 10 = 20 Marks)

