

Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, November 2021.

Botany

**BO 221 : TAXONOMY OF ANGIOSPERMS, ECONOMIC BOTANY,
ETHNOBOTANY AND EVOLUTION**

(2013 – 2018 Admission)

Time : 3 Hours

Max. Marks : 75

Draw diagrams wherever specified

I. Answer the following questions:

1. Janaki Ammal
2. Basionym
3. Expand JNTBGRI.
4. What is '*comb. nov.*'?
5. Useful part of nutmeg
6. Tautonym
7. Linnaean hierarchy
8. Tribal healer



9. What is the status of Tiliaceae in APG classification?
10. What is the fruit type in Casuarinaceae?

(10 × 1 = 10 Marks)

II. Answer the following questions in not more than **50** words:

11. (a) What are the elemental forces of evolution?

OR

- (b) What are taxonomic Keys?

12. (a) What are the functions of taxonomy?

OR

- (b) Numerical Taxonomy.

13. (a) Author citation.

OR

- (b) What are the functions of herbaria? Comment on the major herbaria in India.

14. (a) Give binomials of two ethnomedicinal plants with the drugs obtained.

OR

- (b) What is ethnoecology?

15. (a) Rule of priority.

OR

- (b) Taxonomic literature.

(5 × 2 = 10 Marks)



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

16. (a) Explain various 'Types'.

OR

(b) What is biosystematics? Explain.

17. (a) Explain and compare two phylogenetic systems you studied.

OR

(b) Sympatric and allopatric speciation.

18. (a) Discuss the origin of life on earth.

OR

(b) Explain method of cultivation, botanical details and products obtained from any two plantation crops cultivated in Kerala.

19. (a) Explain the role of Botanical Survey of India.

OR

(b) Briefly explain the concept of species.

20. (a) What is Ethnobotany? Discuss on the relationship of plants and man.

OR

(b) Explain the role of plants in the livelihood of tribals.

(5 × 5 = 25 Marks)

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

21. (a) Write an essay on ethnobotany and its relevance to modern medicine. Add a note on ethnic societies of Kerala.

OR

(b) Give the concept and a broad outline of APG system of classification. Compare with Bentham and Hooker's System of classification.



22. (a) Write a note on types and preparation of taxonomic keys.

OR

(b) Compare the vegetative and reproductive features of the monocot families Cyperaceae, Poaceae and Commelinaceae.

23. (a) Explain the current concepts of the origin of angiosperms.

OR

(b) Compare the subfamilies of Leguminosae.

(3 × 10 = 30 Marks)

