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J – 4721

Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, May 2020

Botany

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

(2013 – 2018 Admission)

Time : 3 Hours

Max. Marks : 75

Draw diagrams wherever specified.

PART – A

- I. Answer the following questions:
1. Jeevani
2. What is 'sp. nov.'?
3. Genetic drift.
4. What is autonym?
5. What is the morphology of cane sugar?
6. Explain the citation 'L.f.'.
7. What is the fruit type in Cyperaceae?
8. In what way *Cannabis sativa* is popular?

P.T.O.



9. What is the status of Sterculiaceae in APG classification?
10. ICNCP

(10 × 1 = 10 Marks)

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

11. (a) Molecular evolution.

OR

- (b) Effective publication.

12. (a) APG System.

OR

- (b) Taxometrics.

13. (a) Briefly comment on the importance of taxonomy.

OR

- (b) Nomenclature of hybrids.

14. (a) Name two important Indian ethnobotanists.

OR

- (b) What is ethnotaxonomy?

15. (a) Molecular Taxonomy.

OR

- (b) Primitive characters of Magnoliaceae.

(5 × 2 = 10 Marks)



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

16. (a) What are the major changes in the Melbourne Code?

OR

(b) Explain the functions and organization of BSI.

17. (a) Explain taxonomic structure.

OR

(b) Briefly explain Darwinism.

18. (a) Isolation and speciation.

OR

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

19. (a) Discuss the historical development of taxonomy in India.

OR

(b) What are the functions of Botanical Gardens? Comment on the major botanical gardens in India and abroad.

20. (a) Discuss the importance of traditional environmental knowledge.

OR

(b) Explain the importance of the documentation of ethnobotanic knowledge.

(5 × 5 = 25 Marks)

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

21. (a) Write an essay on the indigenous societies of Kerala and their traditional uses of plants.

OR

(b) Explain the principles and major rules of Botanical Nomenclature.



22. (a) Explain in detail the methods in the establishment and management of herbaria. Add a note on the importance of herbaria in plant taxonomy.

OR

- (b) Discuss various systems of classifications you studied.

23. (a) Describe the vegetative and reproductive characters of the family Rhizophoraceae with special reference to their habitats.

OR

- (b) Write on the concept of primitive angiosperms. Comment on the time and place of the origin of angiosperms.

(3 × 10 = 30 Marks)

