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J – 4124

Reg. No. :

Name :

Second Semester M.Sc. Degree Examination, May 2020

Branch : Botany

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

(2019 Admission)

Time : 3 Hours

Max. Marks : 75

Draw diagrams wherever specified.

- I. Answer the following questions :
1. Chemotaxonomy.
 2. Autonym.
 3. Kaattunaikka.
 4. Conserved names.
 5. Botanical name of sweet potato.
 6. Sarpagandha.
 7. Expand ICNCP.
 8. Correct the binomial hibiscus rosasinensis 1.
 9. Effective publication.
 10. Traditional healers.

(10 × 1 = 10 Marks)

P.T.O.



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

11. (a) Numerical taxonomy.

Or

(b) Write botanical name and family of two timber yielding plants.

12. (a) Contribution of S.K. Jain.

Or

(b) Concept of genus.

13. (a) Explain the adaptations in mangrove species of Rhizophoraceae.

Or

(b) Intraspecific categories.

14. (a) Importance of taxonomy.

Or

(b) How are hybrids named?

15. (a) Definable and indefinable families.

Or

(b) Write binomial and family of any two spice crops cultivated in Kerala.

(5 × 2 = 10 Marks)

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

16. (a) Compare the spikelets in Poaceae and Cyperaceae.

Or

(b) Explain the characters of Asclepiadaceae. Comment on the status of the family as per APG.

17. (a) Describe taxonomic literatures.

Or

(b) Differentiate lectotype and neotype.

18. (a) Discuss the current ideas on the origin of angiosperms.

Or

(b) Explain taxonomic structure.



19. (a) Mention any two spices or condiments belonging to the family Zingiberaceae. Add a note on their importance.

Or

(b) Explain the construction and use of dichotomous keys.

20. (a) Write an account of the contribution of any two pioneers to Indian Taxonomy.

Or

(b) Explain phylogenetic system of classification with an example.

21. (a) Discuss the economic importance of Apiaceae.

Or

(b) Compare the androecium of Malvaceae and Papilionoideae.

22. (a) Comment on the ethnic societies of Kerala.

Or

(b) Briefly explain the diagnostic features of the family Cucurbitaceae.

(7 × 5 = 35 Marks)

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

23. (a) Discuss ethnobotany and the relationship between plants and man. Add a note on the importance of the documentation of ethnobotanic knowledge.

Or

(b) Describe the botanical details of major cash crops cultivated in Kerala with their uses that you have studied.

24. (a) Write an essay on the establishment and management of herbaria. Explain the role of herbaria in taxonomic research.

Or

(b) What are the major rules and regulations to be in mind while naming a plant?

(2 × 10 = 20 Marks)

