

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2022

UPB 4501 – ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

Date: 16-06-2022

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART-A (10 x 2 = 20 Marks)

Answer the following, each within 50 Words

1. Mention the applications of taxonomy.
2. What is hierarchy?
3. What is plant nomenclature?
4. Define author citation.
5. What is hooded anther?
6. Write the economic importance of Anacardiaceae.
7. Comment on cyathium inflorescence.
8. Define spikelet.
9. What are the uses of cinnamon?
10. Write the botanical name and two uses of groundnut.

PART- B (5 x 7 = 35 Marks)

Answer the following, each within 500 words, Draw diagrams and flowcharts wherever necessary

- 11 a) Describe the scope and importance of plant taxonomy.
(or)
b) Explain the merits and demerits of Bentham and Hooker classification.
- 12 a) What is molecular taxonomy? Explain its applications in plant taxonomy.
(or)
b) Give a brief account on plant nomenclature.
- 13 a) Discuss the salient features of the family Solanaceae.
(Or)
b) Describe the characteristic features of the family Lamiaceae with examples.
- 14 a) Describe the floral characteristic features of the family Euphorbiaceae.
(Or)
b) Give an account on the characteristic features and economic importance of the family Rubiaceae.
- 15 a) Write the botanical name, morphology and the uses of any three pulses.
(Or)
b) Give a detailed note on any three medicinal plants.

PART-C (3 x 15 = 45 Marks)

Answer any three of the following, each within 1200 words, Draw diagrams and flowcharts wherever necessary

16. Describe the indented and bracketed keys with examples.
17. Give an elaborate account on herbarium techniques.
18. Describe the characteristics features and economic importance of the family Cucurbitaceae.
19. Explain the diagnostic features and economic importance of the family Apocynaceae.
20. Write a note on any five each of spices, fiber and timber yielding plants.
