



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FOURTH SEMESTER – APRIL 2024

UPB 4501 – ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY

Date: 08-04-2024

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

Section A

Answer the following, each within 50 words

(10 x 2 = 20 marks)

1. Who is the father of modern botany?
2. Who proposed natural system of classification?
3. Write the main criteria of valid publication.
4. Define Herbarium.
5. What is neotype?
6. Write notes on taxonomic key.
7. Define drupe.
8. Mention any two plants belonging to the family Rutaceae.
9. Define raceme inflorescence.
10. Write the botanical name and family of any two pulses.

Section B

Answer ANY 4, each within 500 words. Draw diagrams and flowcharts wherever necessary.

(4 x 10 = 40 marks)

11. Give a brief account origin of angiosperms.
12. Discuss about bracketed keys.
13. Write an essay on ICN.
14. Write about any two molecular techniques used in Taxonomy.
15. Describe the characteristic features of the family Solanaceae with examples.
16. Describe the characteristic features of *Ocimum sanctum*.
17. Write the binomial, family, and uses of any three edible oils.
18. Write the binomial, family, and the uses of any spices.

Section C

Answer ANY 2 of the following, each within 1200 words. Draw diagrams and flowcharts wherever necessary.

(2 x 20 = 40 marks)

19. Give an elaborate account on Herbarium techniques.
20. Describe and discuss the characteristics features of the family Rubiaceae and economic importance.
21. Describe the diagnostic characteristics and economic importance of the family Poaceae.
22. Discuss the botanical name, family, uses and useful parts of any two timbers, medicinal plants, cereals, and millets.

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