QP Code: U25DRIS026

Reg. No : .....
Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER (FYUGP) DEGREE EXAMINATIONS, NOVEMBER 2025
(Regular/Improvement/Supplementary)
B. Sc. Botany
BOT1CJ101 : AESTHETIC BOTANY
2024 Admission Onwards
(Credits: 4)

Time: 2 Hours **Maximum Marks: 70**

Section A

*Answer **all**. Each question carries **3** Marks.* ***(Ceiling: 24 Marks)***

1. Analyze the impact of indoor plant selection in the indoor air quality.
2. Examine the relationship between landscape design and biodiversity conservation.
3. Suggest suitable features for designing a home garden in a hot climate.
4. How would you apply the concept of drip irrigation to conserve water in an arid region?
5. How would you propagate a plant using simple layering?
6. How do biopesticides differ from chemical pesticides in terms of mode of action and environmental impact?
7. Define metadata?
8. Describe the different methods for presenting botanical photographs.
9. Why are mordants necessary in eco-printing?
10. Name two basic styles of floral arrangements.

Section B

*Answer **all**. Each question carries **6** Marks.* ***(Ceiling: 36 Marks)***

11. Examine how the requirements for bonsai care differ from other potted plants.
12. Differentiate plants based on their life span and seasonal growth cycle.
13. Analyze the factors to be considered while selecting plants for terrarium culture.
14. What is floriculture? Add a note on the industrial importance of ornamental plants.
15. What are the key differences between using a sprayer and a watering can for nursery management?

Turn Over

16. How would you transplant delicate seedlings like brinjal without damaging the roots?
17. Explain the various applications of macro photography.
18. How does the arrangement of different elements in an Ikebana design contribute to the overall balance and harmony of the composition?

Section C

*Answer **any one**. Each question carries **10** Marks.* ***(1x10=10marks)***

19. Discuss in detail the construction, purpose, and advantages of different types of propagating structures such as greenhouses, polyhouses, mist chambers, and net frames.
20. How are color theory and mixing techniques applied in botanical illustration? Discuss their role in achieving accuracy and realism.

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