QP Code: U25DIS004

Reg. No : ....

Name : ....

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

I SEMESTER (FYUGP) DEGREE EXAMINATIONS, NOVEMBER 2025

(Improvement/Supplementary)

BOT1FM105(2) : PLANT PROPAGATION

2024 Admission Only

(Credits: 3)

Time:1. 5 Hours **Maximum Marks: 50**

Section A

*Answer **All**. Each question carries **2** Marks.* ***(Ceiling: 16 Marks)***

1. List out the potentialities of micropropagation.
2. How would you apply green manure to improve soil fertility?
3. How does meristem culture contribute to plant disease management, particularly in virus-prone crops?
4. Explain the use of a humidifier in a propagation facility.
5. Explain why seed dormancy occurs in some plant species.
6. Explain how biopesticides differ from synthetic chemical pesticides.
7. How would you apply the concept of drip irrigation to conserve water in an arid region?
8. Explain gootee.
9. Compare the differences in plant care between open and closed terrariums.
10. Analyse the need for plant propagation.

Section B

*Answer **All**. Each question carries **6** Marks.* ***(Ceiling: 24 Marks)***

11. What are the key differences between using a sprayer and a watering can for nursery management?
12. What are the different types of soil?
13. What factors should be considered when deciding the timing of transplanting seedlings into the field?
14. List out and explain the factors that affect the post-harvest life of flowers.
15. What is the impact of crop rotation on soil fertility, controlling pests and diseases, and achieving maximum productivity in vegetable gardening?

Turn Over

Section C

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

16. Compare the efficiency of using chemical fertilizers and biofertilizers for long-term soil health.
17. Analyze the process of mushroom cultivation by discussing the various steps involved in it and add a note on the advantages and challenges of cultivating mushrooms.

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