



QP CODE: 26019262



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026**

**Fourth Semester**

M Sc PLANT BIOTECHNOLOGY

**ELECTIVE - BS820401 - GREEN HOUSE MANAGEMENT AND PLANT PROTECTION**

2019 Admission Onwards

8AC5770A

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Write the uses of fluorescent light boxes in propagation.
2. Explain the need of containers in plant propagation .
3. List different soil mix formulations commonly used in nurseries.
4. Explain the role of compost in growing media for nursery plants.
5. Write a note on physical propagation facilities used in nurseries.
6. Discuss the importance of water quality in nursery and greenhouse propagation.
7. Differentiate pre- emergence and post-emergence herbicide .
8. Define mechanical methods on weed control. Give two examples.
9. What are fungicides used in plant disease control? Give two examples.
10. Give two physical methods of insect pest control and their uses .

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Discuss lath houses with reference to design, advantages, and limitations.
12. Discuss the environmental requirements (light, temperature, humidity, CO<sub>2</sub>) for successful propagation under protected conditions.





13. Discuss vermiculite and perlite as propagation media, highlighting their properties and uses.
14. Discuss controlled-release fertilizers, their types, and advantages in plant propagation.
15. Explain crop–weed competition and its impact on crop growth and yield.
16. Discuss the problems of herbicide resistance and environmental hazards associated with herbicide use.
17. Define plant disease and discuss its causes and classification.
18. Describe the chemical approach of insect control.

(6×2=12 weightage)

### **Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Compare soil-based and soilless growing media and evaluate their importance in modern greenhouse and nursery plant propagation.
20. Elaborate on the proper handling, storage, and transportation of container-grown plants, emphasizing practices that minimize stress and ensure successful establishment.
21. Describe the different methods of weed control and mentioning their principles, advantages, and limitations.
22. Describe host plant resistance and biological control as methods of disease management, highlighting their mechanisms, advantages, and constraints.

(2×5=10 weightage)

