



QP CODE: 25020427



25020427

Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE / MERCY CHANCE
EXAMINATIONS, FEBRUARY 2025**

Sixth Semester

CORE COURSE - BO6CRT09 - GENETICS, PLANT BREEDING AND HORTICULTURE

Common for B.Sc Botany Model I, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology & B.Sc Botany and Biotechnology Model III Double Main.

2017 Admission Onwards

8EC6C99C

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What is a complementary gene ratio?
2. What do you mean by linkage map?
3. What do you mean by pedigree analysis?
4. What is the concept of gene pool?
5. What is Secondary Plant Introduction?
6. What is Mass Selection?
7. What is pedigree method?
8. What is Embryo culture?
9. Name a chemical used for testing seed viability.
10. What is a kitchen garden?
11. What is the purpose of pruning?
12. What is the importance of wiring in Bonsai making?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. What is the significance of a back cross and test cross?
14. Explain the mechanism of self sterility in Nicotiana.
15. Explain chromosome theory of sex determination with special reference to XX-XY mechanism.
16. What do you mean by maternal effect? Give its significance in snail.
17. Explain mechanism of disease resistance in plants.
18. What are the limitations of Polyploidy Breeding?
19. Explain different classification of vegetables.
20. What are the advantages and disadvantages of vegetative propagation?
21. Describe the preparation of potting mixture.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. What is the reason for Mendel's success in his experiments with Pea plant?
23. Explain quantitative inheritance with any suitable example.
24. Explain the objectives of Plant Introduction.
25. Describe the various garden implements which you have studied.

(2×10=20)

