



QP CODE: 23105204



Reg No :

Name :

**B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,
MARCH 2023**

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

DE2F6E1D

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

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

1. What is a dihybrid ratio?
2. Give the significance of crossing over
3. What do you mean by extra chromosomal inheritance?
4. What is the concept of gene pool
5. What is plant Introduction?
6. What is hypersensitivity?
7. Which wheat variety was developed from Sonora-64 by mutation breeding?
8. What is a meristem culture?
9. What are zaid crops?
10. Name a garden tool used in lawn maintenance
11. What is a kitchen garden?
12. What is a conservatory?

(10×1=10)





Part B

Answer any **six** questions.

Each question carries **5** marks.

13. Explain inheritance of lethal genes in snapdragon?
14. Explain the mechanism of self sterility in Nicotiana?
15. Explain the genetics of haemophilia in man.
16. Explain polygenic inheritance with a suitable example.
17. Explain the activities involved in Plant Breeding?
18. What are the application of Pureline selection?
19. Explain different methods used to analyse the seed quality?
20. What are the advantages and disadvantages of vegetative propagation?
21. Explain different factors to be considered while designing a garden?

(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 chromosome theory of sex determination with suitable examples.
24. What is Hybridization? Explain different Method of Hybridization in plants?
25. Explain the steps involved in creating a bonsai?

(2×10=20)

