

CSSR & SRRM DEGREE & PG COLLEGE

(AUTONOMOUS)

UG (CBCS) REGULAR EXAMINATIONS, OCT- 2025

B.Sc(Bot), SEMESTER-III

MAJOR: PLANT BREEDING

(w.e.f. 2024-25 Admitted Batch)

Time: 3 hrs.

(No additional sheet will be supplied)

Max. Marks: 70

SECTION-A

I. Answer any FIVE questions. Each Question Carries 4 Marks

5 X 4 =20 M

1. A brief account of self and cross pollination.
2. Genetic variation in crop improvement.
3. What is Male sterility.
4. Classification of SI.
5. Objectives of plant introduction.
6. Germplasm collection.
7. Dominance hypothesis.
8. Emasculation – methods.
9. Applications of SNPs.
10. MAS

SECTION – B

II. Answer All questions. Each Question Carries 10 Marks

5 X 10 =50 M

11. Explain aim and objectives of plant breeding.

Or

12. What is apomixis? are its types? Write the advantage of apomixes.

13. Explain heteromorphic and homomorphic systems.

Or

14. Explain centres of origin of crop plants.

15. Explain plant introduction agencies in India.

Or

16. Explain pure line selection method- procedure, advantages and disadvantages, achievements.

17. Write about the types of Hybridization.

Or

18. Explain cross-pollinated crops: back cross method- procedure, advantages and disadvantages, achievements.

19. Explain procedure of mutation breeding.

Or

20. Describe Restriction Fragments Length Polymorphism (RFLP).

