

2025

**M.Sc. in Agriculture 1st Semester
Examination**

GENETICS AND PLANT BREEDING

Paper : GPB-502

[Principles of Plant Breeding]

(Practical)

Full Marks : 30

Time : Three Hours

The figures in the margin indicate full marks.

1. Perform emasculation of the given sample $A_1/A_2/A_3$.
Explain the steps of hybridization. 5
2. Fill the gap in ANOVA table. Also calculate GCV, PCV
and Heritability and genetic advance from this table.
[Grand mean = 50.76] 10

Source of variation	Degree of freedom	Sum of square	Mean Sum of square	F value
Replication	3	4.22	?	?
Treatment	?	?	?	?
Error	48	98.28	?	
Total	?	2805.09		

P.T.O.

(2)

3. Laboratory Notebook 5

4. Viva-voce 10
