

2025

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

GENETICS AND PLANT BREEDING

Paper : GPB-505

[Principles of Cytogenetics]

(Practical)

Full Marks : 30

Time : Three Hours

The figures in the margin indicate full marks.

1. Make a suitable preparation of supplied sample 'A'.
Identify two divisional stages and calculate the mitotic
index. 9
[Material and slide preparation-3; Procedure-2; Drawing-
2; Calculation-2]
 2. Make a suitable preparation of supplied sample 'B' and
'C' and compare their pollen viability (with the aid of
Acetocarmine/TTC). 6
[Procedure-2; Slide preparation-1; Calculation and
Comment-(2+1)]
 3. Laboratory Notebook 5
 4. Viva-voce 10
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