

2025

M.Sc. 3rd Semester Examination

BOTANY

**(Plant Physiology, Biochemistry and
Molecular Biology)**

Paper : BOT - 309G

(Plant Physiology)

(Practical)

(New Syllabus)

Full Marks : 25

Time : Three Hours

The figures in the margin indicate full marks.

Perform any *two* experiments (Q. No. 1 to 5)
as indicated by the tick (✓) mark.

1. Evaluate and compare the total dehydrogenase activity of the supplied seed samples A, B, C, D and E. Give proper explanation of the result obtained.
(Requisition-2, Procedure-4, Result-2) 2+4+2
2. Perform the experiment for estimation of carotenoid pigment from plant samples.
3. F and G
(Requisition-2, Procedure-4, Result-2) 2+4+2

P.T.O.

4. Perform the experiment for separation and identification of plant pigments by TLC method.
(Requisition-2, Procedure-4, Result-2) 2+4+2
 5. Extract and estimate total protein content from plant samples (normal and stressed) and evaluate the effect of high temperature stress on protein content by spectrophotometric method.
(Requisition-2, Procedure-4, Result-2) 2+4+2
 6. Laboratory notebook 4
 7. Viva-voce 5
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