

2025

M.Sc. 3rd Semester Examination

BOTANY

Paper : BOT - 308

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

(Practical)

(New Syllabus)

Full Marks : 25

Time : Three Hours

The figures in the margin indicate full marks.

1. Answer any *two* questions : 8×2=16

- (a) Determine the percentage of seed viability in the supplied specimens, A, B, C, D and E. Graphically represent and comment on the result. 2+4+2
[Requisition 2, Result 4, Comment 2]
- (b) Extract and compare the levels of total chlorophyll in the supplied specimens F, G and H. Graphically represent and comment on the result. 2+4+2
[Requisition 2, Result 4, Comment 2]
- (c) Determine the concentration of amino acid present in supplied samples I and J using ninhydrin reagent with the help of standard curve. 2+4+2
[Requisition 2, Result 4, Comment 2]

P.T.O.

(2)

(d) Determine the concentration of carbohydrate present in supplied samples K and L using anthrone reagent with the help of standard curve. 2+4+2
[Requisition 2, Result 4, Comment 2]

(e) Determine the concentration of protein present in supplied samples M and N by Lowry's method with the help of standard curve. 2+4+2
[Requisition 2, Result 4, Comment 2]

2. Laboratory note book 4

3. Viva-voce 5
