

2025

M.Sc. 3rd Semester Examination

BOTANY

Paper : BOT - 395.2

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

(Old Syllabus)

(Practical)

Full Marks : 25

Time : Three Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

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]

P.T.O.

(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]

(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]

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| 2. Laboratory note book. | 4 |
| 3. Viva-voce. | 5 |
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