

M.Sc. 3rd Semester Examination, 2023

BOTANY

(*Plant Physiology, Biochemistry and Molecular
Biology*)

(Practical)

PAPER — 395.2 (Old)

Marks : 25

Time : 3 hours

Answer all questions

The figures in the right hand margin indicate marks

*Candidates are required to give their answers in
their own words as far as practicable*

1. Answer any *two* questions from the following : 8×2
- (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 the supplied samples I and J using ninhydrin reagent with the help of a 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 a standard curve. 2 + 4 + 2
[Requisition 2, Result 4, Comment 2]

(e) Determine the concentration of protein present in the supplied sample M and N

by Lowry's method with the help of a
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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