

2022

M.Sc.

4th Semester Examination

BOTANY

PAPER—495G

(Practical)

Full Marks : 50

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer all questions.

**Special Paper 495G : Plant physiology,
Biochemistry and Molecular Biology**

1. Answer any two questions. 2×20

(a) Evaluate the viability percentage of the

(Turn Over)

supplied seed samples A, B, C, D and E. Give proper explanation of the result obtained.

[Requisition-2, Procedure-8, Result-5, Principle-5]

- (b) Perform the experiment for estimation of iron in supplied specimen using colorimetry.

[Requisition-2, Principle-5, Procedure-8, Result-5]

- (c) Perform the extraction and estimation of enzyme catalase from plant samples.

[Requisition-2, Principle-5, Procedure-8, Result-5]

- (d) Perform the extraction and estimation of enzyme amylase from plant samples.

[Requisition-2, Principle-5, Procedure-8, Result-5]

- (e) Extract and estimate nucleic acids (DNA) from plant samples by colorimetric / spectrophotometric method.

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