## M.Sc. 3rd Semester Examination, 2023 BOTANY

(Cell Biology and Genetics)

(Practical)

PAPER - 395.1

Full 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

- A. Perform the tick marked problem of the following:
- 1. Work out the **Sample A**, show prometaphase, early /late anaphase, late telophase and interphase

and describe each of them with the right drawing as shown under microscope.  $2\frac{1}{2} \times 4$ 

- 2. Work out the Sample B, show any two divisional stages and describe each of them with the right drawing as shown under microscope.

  5+5
- 3. Work out karyotype from the Sample C and comment on it
- comment on it.

**B.** Work out the following problem:

- 4. Perform Chi-square test for the given problem in **Sample D** and comment on the inheritance pattern of the assumed one.
- 5. Laboratory note book 2
- 6. Viva-Voce 3

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## M.Sc. 3rd Semester Examination, 2023 BOTANY

(Cell Biology and Genetics)

(Practical)

PAPER = 395.1 (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

- A. Perform the tick marked problem of the following:
- 1. Make a squash preparation of the Sample A, show any four phases of mitotic division and

(Turn Over)

de	scribe ea	ach of the	nem with the suit	able drawing
as	shown	under	microscope.	$2\frac{1}{2}\times4$

- 2. Work out the Sample B with a smear preparation of anther tissue, show any two divisional stages and describe each of them with the right drawing as shown under microscope.
- 3. Work out karyotype from the Sample C and comment on it.
- B. Work out the following problem:
- 4. Perform Chi-square test for the given problem in Sample D and comment on the inheritance pattern of the assumed one.
- 5. Laboratory note book. 2
- 6. Viva-Voce