


RAN-2403080404010002
M. Sc. (Sem. - IV) Examination September - 2025
Botany (Paper - 4001)
Cell Biology, Genetics, Molecular Biology and Biochemistry
Time: 3 Hours]
[Total Marks: 70
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Attempt all the questions
- (3) Marks of each question are indicated against it.
- (4) Draw diagrams wherever necessary.

Seat No.:

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Student's Signature

Q. 1. What is mutation? Describe its types. (16)
OR

What is RNA splicing? Explain in detail.

Q. 2. Write a note on any two. (18)

- i. Epistasis
- ii. Mechanism of enzyme action
- iii. Translation

Q. 3. Describe briefly any two. (18)

- i. Maternal inheritance
- ii. Intron
- iii. Genetic code

Q. 4. Briefly explain any two of the following. (18)

- i. t-RNA
- ii. Sex-linked inheritance
- iii. Chiasmata