



RAN-1903080503010001

M. Sc. (Sem.-III) Examination October - 2025
Zoology (Zoo : 3001) Cell Biology And Genetics

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) Figures to the right indicate full marks.
- (3) Draw neat and labeled diagrams wherever necessary

Seat No.:

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Student's Signature

- Q.1. Answer any Two of the following: (18)**
- A. Write detail notes on: Structure and functions of endoplasmic reticulum
 - B. Explain: Micro bodies
 - C. Describe: Ribosome
- Q.2. Answer any Two of the following: (18)**
- A. Write detail notes on: Salient features of cell Cycle
 - B. Explain: Cell Death Mechanisms
 - C. Describe: Structure and function of microtubule
- Q.3. Answer any Two of the following: (18)**
- A. Write detail notes on: Linkage maps using crossing over
 - B. Explain: Gene interaction
 - C. Describe: Multiple alleles with reference to skin colour in mice and eye colour in *Drosophila*.
- Q.4. Answer any Two of the following: (16)**
- A. Write detail notes on: Extra chromosomal inheritance by mitochondria
 - B. Describe: Single gene disorders
 - C. Describe: Spontaneous vs induced mutations