



RAN-2503080502060002

M. Sc. (Sem. - II) Examination September - 2025

Zoology (Paper - Zoo-2006 - Skill Based Elective) Instrumentation and Techniques

Time: 2 Hours]

[Total Marks: 30

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) Mention below given details in answer book.
- (3) Figures to the right indicate full marks.
- (4) Draw neat and labelled diagrams wherever necessary.

Seat No.:

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Student's Signature

Q. 1. Answer Any One of the following: (10)

- A. **Explain:** Paper chromatography its types and preparation technique
- B. **Describe:** Stationary phase and Detectors in GLC and GSC

Q. 2. Answer Any One of the following: (10)

- A. **Explain:** Principles, instrumentation and applications of fluorescence spectroscopy
- B. **Describe:** Derivation of Lambert's Beers Law

Q. 3. Answer Any Two of the following: (10)

- A. **Write detail notes on:** Mass Spectroscopy
- B. **Explain:** Reference and pH electrodes
- C. **Describe:** Colorimeter: Instrumentation and Application