



RAN-1903080502020001

M. Sc. (Sem. - II) Examination September - 2025 Zoology (Paper - Zoo-2002) Animal Physiology

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) Mention below given details in answer book
- (3) Figures to the right indicate full marks.
- (4) Draw neat and labeled diagrams wherever necessary.

Seat No.:

--	--	--	--	--	--

Student's Signature

Q. 1. Answer any Two of the following: (18)

- A. **Write detail notes on:** ECG.
- B. **Explain:** Gas exchange and mechanism of respiration in vertebrates.
- C. **Describe:** Role of dietary fibre in digestion.

Q. 2. Answer any Two of the following: (18)

- A. **Write detail notes on:** Effects of exercise on Respiratory responses.
- B. **Explain:** Effects of muscular exercise on circulation.
- C. **Describe:** Role of yoga and their effects (Any three yoga).

Q. 3. Answer any Two of the following: (18)

- A. **Write detail notes on:** Morphology, synthesis and action of hormones of Adrenal gland.
- B. **Explain:** Structure, function & hormones of Pancreas.
- C. **Describe:** Patho physiology of cretinism

Q. 4. Answer any Two of the following: (16)

- A. **Write detail notes on:** AMP cycle.
- B. **Explain:** Genomic mechanism of thyroid hormones.
- C. **Describe:** Hormones receptors of Cytoplasm