



# RAN-1803080501010001

## M.Sc. (Sem. I) Examination November - 2025

### Zoology (Paper : Zoo MZ : 1001) Biology of Non-Chordates

**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.:

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Student's Signature

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

- A. Write detail notes on: Origin and organization of coelom of coelomates.
- B. Explain: Classification with diagnostic features up to class level of Porifera.
- C. Describe in detail; various theory of origin of Metazoa.

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

- A. Write detail notes on: Locomotory organelles of Protozoa.
- B. Explain: Type of filter feeding in Mollusca with suitable examples.
- C. Describe: Feeding and digestion in Echinodermata.

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

- A. Write detail notes on: Major excretory organs in Arthropoda.
- B. Explain: Sense (Receptor) organs of class Insecta.
- C. Describe: Respiratory organ gills in Mollusca.

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

- A. Write detail notes on: Ectoprocta.
- B. Explain: Larval forms of Crustacean.
- C. Describe: Evolutive significance of Cestoda.