

**A-1063**

**Total Pages : 03**

**Roll No. -----**

**MSCZO-501**

**Invertebrates**

**M.Sc. Zoology (MSCZO)**

**Examination 2026(Feb.)**

**Time: 2:00 hrs**

**Max. Marks: 70**

Note: This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

**Section-A**

**(Long-Answer-Type Questions)**

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2x19=38]

P.T.O.

**A-1063**

- Q.1. How the physiology of an animal does related to the type of its excretory product? Explain with examples.
- Q.2. Write a note on the feeding mechanism and digestion in Echinoderms.
- Q.3. Describe the distinctive characters of Ctenophora. Write detailed account on affinities of Ctenophora with Coelenterata and Hydrazoa.
- Q.4. Describe the coelomoducts in different groups of molluscs.
- Q.5. Write a note on any two of the following:
- Ophiopluteous larva
  - Coelom in leech
  - Osmoregulation

### **Section-B**

#### **(Short-Answer-Type Questions)**

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4x8=32]

- Q.1. Describe mechanism of gaseous exchange in the tracheal system of insects.
- Q.2. Differentiate between deuterostomes and protostomes.
- Q.3. Give an account on the distinctive characters of Gastrotricha.
- Q.4. Write short note on any one of the following:
- Tornaria larva
  - Nauplius larvae

- Q.5. Write an essay on protonephridia.
- Q.6. Differentiate between schizocoelomate and enterocoelomate.
- Q.7. Describe the dual mode of respiration in Pila.
- Q.8. Write short note on the following:
- a. Trachea
  - b. Trochophore larvae.

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