

**S-178**

Total Pages : 3

Roll No. ....

# **MSCZO-501**

## **Invertebrates**

M.Sc. Zoology (MSCZO)

1st Semester Examination, 2022 (Dec.)

**Time : 2 Hours]**

**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.

### **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.

(2×19=38)

1. What do you mean by locomotion? How many modes of locomotion are found in Protozoa?

2. Describe the significance of coelom.
3. Describe feeding pattern in lower metazoans.
4. Give a brief account of the different respiratory organs found in invertebrates.
5. Describe the different types of excretory organs found in Arthropods?

**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. (4×8=32)

1. Write short notes on :
  - (a) Ephyra Larva.
  - (b) Carcaria Larva.
  - (c) Zoea Larva.
  - (d) Glochidium Larva.
2. Write a note on osmoregulation.
3. Write short notes on Respiratory pigments found in invertebrates.

4. Give an account of central nervous system of insects.
  5. Differentiate between protonephridia and metanephridia.
  6. Describe the cercaria larva of helminthes.
  7. Discuss about diploblastic and triploblastic animals.
  8. Write the difference Flagella and Ciliary movement in Protozoa.
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