

Reg. No .....

Name .....

23U230

**B. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023**

**SEMESTER 2 : ZOOLOGY**

**COURSE : 19U2CRZOO02 : ANIMAL DIVERSITY NON - CHORDATA II**

*(For Regular - 2022 Admission and Improvement / Supplementary – 2021/2020/2019 Admissions)*

Time : Three Hours

Max. Marks: 60

**PART A**

**Answer All (1 mark each)**

1. What is anhydrobiosis ?
2. Name the scientific & common name of a trematode transmitted through soil.
3. Name the parasitic crustacean which lives in the body of crabs.
4. *Neopilina* is considered as a living fossil. Why?
5. Give the scientific name of a cave velvet worm.
6. Why nematodes are called so?
7. Define ossicles.
8. Identify any two unique characters of ring worms.

**(1 x 8 = 8)**

**PART B**

**Answer any 6 (2 marks each)**

9. What is clitellum ? Give its significance.
10. Prepare notes on  
a) Auricularia larva b) Polian vesicle.
11. Write the names of Cephalic Appendages of *Penaeus*.
12. What is known as Organ of Bojanus?
13. Define hemimetabolous insects ?
14. What is cryptobiosis ? Mention its significance.
15. Explain the following  
a) Glass worms b) Stomochordates.
16. Describe the sexual dimorphism in *Penaeus indicus*.

**(2 x 6 = 12)**

**PART C**

**Answer any 4 (4 marks each)**

17. Describe the body plan of phylum mollusca with a neat labelled diagram.
18. Present the morphology of earthworm with illustration.
19. Classify the phylum Arthropoda into its subphyla and classes by giving the most suitable characteristics.
20. List out the salient features of flatworms accounting examples for different groups.
21. Point out the identifying features of holothuroidea. Add notes on the larval forms of the group (Use neat diagram).
22. Explain the way of locomotion in *Pheretima* ?

**(4 x 4 = 16)**

**PART D**

**Answer any 2 (12 marks each)**

23. Outline the classification of Nematodes accounting the parasites of the phylum.
24. Describe the appendages of *Penaeus indicus*. Provide neat diagrams.
25. Present the Nervous system and it's working in *Pheretima posthuma*. Add note on regeneration capacity in the species.
26. Elucidate the cultural method of pearls. Add notes on the difference of natural and artificial pearl formation.

**(12 x 2 = 24)**