



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 2nd Semester Examination, 2022

**CC3-ZOOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **five** questions from the following: 1×5 = 5
  - (a) Mention the function of parapodia.
  - (b) Name two ciliary bands of Trocophore larva.
  - (c) Define sinistral and dextral shell of gastropods.
  - (d) What is chiastoneury?
  - (e) What is nuchal lobe?
  - (f) Write the systematic position of brittle star.
  - (g) What is a radula?
  - (h) State the location and function of statocyst in *Pila* sp.
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) What are the similarities of phylum Onychophora with phylum Arthropoda?
  - (b) Write a short note on 'Vision in Insecta'.
  - (c) Mention the general characteristics of Hemichordata.
  - (d) Write a brief account on different types of locomotion found in *Nereis* sp.
  - (e) Discuss the various larval forms of Echinodermata.
  
3. Answer any **two** questions from the following: 10×2 = 20
  - (a) Write a brief account on the tracheal respiration in cockroach. Discuss the different types of metamorphosis found in insects, citing example in each case. 5+5
  - (b) Classify Phylum Mollusca upto class level with suitable examples.
  - (c) What is metamerism? Write on any two theories on the origin of metamerism. 2+8
  - (d) Write a brief account on the water vascular system. Write a brief note on Tiedemann's body. 6+4

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