



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 1st Semester Examination, 2023

CC1-ZOOLOGY

NON-CHORDATES

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) Define species.
 - (b) What is Schuffner's dot?
 - (c) Define coelom.
 - (d) What is preconjugant?
 - (e) Define biradial symmetry.
 - (f) What is schizont?
 - (g) What is metagenesis?
 - (h) What is the infective stage of *Ascaris* sp?

2. Answer any **three** questions from the following: 5×3 = 15
 - (a) Draw a labelled diagram of the scolex and mature proglottid of *Taenia solium*. 3+2
 - (b) Write down different types of coral reefs.
 - (c) Describe the sexual dimorphism found in *Ascaris*.
 - (d) Define and differentiate alpha taxonomy and beta taxonomy.
 - (e) Write a note on different types of spicules in Porifera.

3. Answer any **two** questions from the following: 10×2 = 20
 - (a) Give an account of the life history of a filarial worm and discuss its pathogenic effect. 7+3
 - (b) Define polymorphism. Describe polymorphism in Hydrozoa. "Striking is the difference between polyp and medusa, but they are homologous structures"—Discuss. 2+6+2
 - (c) What is canal system? What are the features of an ideal canal system? Describe the canal system found in Syconoid sponges. 1+2+7
 - (d) Mention the locomotory organelles of *Amoeba*, *Euglena* and *Paramoecium*. 10

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