



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Programme 1st Semester Examination, 2021

**DSC1/2/3-P1-ZOOLOGY**

**ANIMAL DIVERSITY**

Time Allotted: 2 Hours

Full Marks: 40

*The questions are of equal value  
The figures in the margin indicate full marks.*

1. Answer any **five** questions from the following: 1×5 = 5
  - (a) Define Cyclosis.
  - (b) What is retrogressive metamorphosis?
  - (c) Draw and label a Choanocyte.
  - (d) What is Cnidoblast?
  - (e) What is neoteny?
  - (f) Name two annelids having setae in parapodia.
  - (g) What are Onchospheres?
  - (h) Why insect blood is called haemolymph?
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) Write the general features of Protochordata.
  - (b) Describe the Sol-gel theory of formation of pseudopodia.
  - (c) Distinguish between Cetacea and Sirenia.
  - (d) Differentiate between poisonous and non-poisonous snakes.
  - (e) Mention the different types of Caudal fin. Draw a sketch for each type.
  
3. Answer any **two** questions from the following: 10×2 = 20
  - (a) Write about the different types of parental care in amphibians. 10
  - (b) What is metamorphosis? Discuss the different types of metamorphosis in insects citing example in each case. Elucidate the role of different hormones in the process. 2+6+2
  - (c) What is water vascular system? Discuss the water vascular system in star fish. 2+8
  - (d) Write the general characters of Phylum Nematoda. Classify Phylum Nematoda upto class with examples. 5+5

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