

Zoology [Minor]

[NEP-CBCS]

B.Sc. First Semester End Examination-2023

PAPER: ZOO-MI 01

Full Marks: 40

Time: 02 Hrs

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group A

1. Answer any FIVE questions of the following: **5x2= 10**
- a) Define Protozoa and Metazoa with examples. **2**
- b) What is homonomous and heteronomous segmentation? Define Metachronus Rhythm. **1+1**
- c) What is Totipotent cell? Write the name of special cells found in spongoeol of Porifera with function. **1+1**
- d) Define Metagenesis. Write any three names of modified Polyp. **1+1**
- e) Name the excretory organ of Platyhelminthes. What do you mean by pseudocoelomate and acoelomate? **1+1**
- f) Write an important character of Phylum Anneliuda. Define Metamerism. **1+1**

(2)

- g) Name the respiratory organ of Mollusca What is the function of Mantle? 1+1
- h) What do you mean by tube feet and Papulae? Define Ambulacral system. 1+1
- i) What do you mean by Protochordate? What is the main difference between notochord and nerve cord? 1+1

Group B

2. Answer any FOUR questions of the following: 4x5 = 20

- a) Write a short note on Flight Mechanism of Birds. 5
- b) Write any three important differences between Mammals and other vertebrates. Write the three characters of mammals. Are all mammals viviparous? 2+2+1
- c) Write a note on Biting Mechanism of Poisonous snakes. 5
- d) Define Parental Care of Amphibia. Describe the indirect care. 1+4
- e) Write about osmoregulation in Fresh water and Marine cartilaginous Fishes. 5
- f) Describe water vascular system in Asterias. 5
- g) Define Pearl. Write short note on Pearl Formation 1+4
- h) Write an important characters of Phylum Arthropoda. Write about Nest Building and Swarming of Termite. 1+4

(3)

Group C

3. Answer any ONE question of the following: 1x10 = 10
- a) Write the Types of Canal System present in Porifera. Describe with diagram the Canal system in sycon. Write about water Current through Canal system. 1+7+2
- b) P vivax is a digenetic parasite-explain. Write briefly with diagram the life cycle of P vivax. 2+8
