

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023
(Regular/Improvement/Supplementary)

ZOOLOGY

GZOL2B02T: ANIMAL DIVERSITY: NON CHORDATA PART - II

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)

1. Give two examples of Polychaeta and Hirudinea.
2. Write short notes on Heteronereis.
3. Comment on the parasitic adaptations of leech.
4. What is parasitic castration? Give an example.
5. What is petasma?
6. Write short notes on Lepisma.
7. Write short notes on *Papilio buddha*.
8. Comment on the economic importance of *Pinctada*.
9. Describe the salient features of class Crinoidea.
10. Name the Larvae of class Ophiuroidea and class Holothuroidea.
11. What are the salient features of *Balanoglossus*?
12. How environment affect the sexual differentiation of *Bonellia*?

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 Marks)

13. Write note on osmoregulation and excretion in *Nereis*.
14. Briefly describe *Chaetopterus* and its special features.
15. Describe the special characteristics of *Peripatus* which is **not** shared with phylum Arthropoda and Annelida.
16. Briefly describe statocyst of Prawn.
17. Explain the pallial complex of *Pila*.
18. Explain the structure and functions of water vascular system of Echinodermata with diagrams.
19. Describe the salient features of phylum Echiura.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. Classify Phylum Arthropoda down to classes, giving salient features and examples.
21. Describe the branchial and pulmonary respiration in pila.

(1 x 10 = 10 Marks)