

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2022
(Regular/Improvement/Supplementary)

ZOOLOGY

GZOL1B01T: ANIMAL DIVERSITY: NON-CHORDATA PART- I

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries 2 marks.
(Ceiling 20 Marks)

1. Write an account on R H Whittaker's classification.
2. Comment on classification of organisms based on germ layers with suitable examples.
3. What are the major kinds of symmetry found in eumetazoans. Give examples.
4. Briefly describe the external morphology of *Ascaris*.
5. Comment on infusoriform larva of *Dicyema*.
6. Write a note on asexual reproduction in protists.
7. Describe the structure and function of contractile vacuoles.
8. Explain ascanoid canal system.
9. Name the different zooids found in *Halitemma*.
10. List out the peculiarities of life cycle of *Fasciola*.
11. Write a note on mastax.
12. Explain the affinities of rotifers with annelids.

SECTION B: Answer the following questions. Each carries 5 marks.
(Ceiling 30 Marks)

13. Describe the various approaches used in systematics for classification.
14. What is nomenclature? Explain the international rules of nomenclature.
15. With diagram explain the mechanisms of coelom formation.
16. Describe in detail the structure of sponge gemmule.
17. Briefly describe polymorphism in siphonophora with an example.
18. Write down the characteristic features of class Cestoda . Give two examples.
19. Briefly explain the life cycle of *Wuchereria*.

SECTION C: Answer any 1 question. Each carries 10 marks.

20. Write a note on parasitic protozoans citing examples and pathogenicity.
21. Describe in detail the morphological features of *Obelia*. Add a note on its life cycle.

(1 x 10 = 10 Marks)