Reg.No	

Name: .....

## FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023 (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 *two* marks.

### (Ceiling 20 Marks)

- 1. Differentiate between phenetics and phylogenetics.
- 2. Explain the demerits of five kingdom classification.
- 3. Describe the nature of coelom in *Bilateria*.
- 4. Comment on the development and life cycle of Rotifers.
- 5. With aid of diagram explain enterocoely formation of coelom.
- 6. Differentiate between haplontic and diplontic life cycle.
- 7. Write down the silent features of Phylum Rhombozoa.
- 8. Write down the distinguinging features of class Calcispongiae.
- 9. Comment on comb ribs in ctenophora.
- 10. List out the peculiarities of digestive system in Dugesia.
- 11. Comment on nocturnal periodicity exhibited by filarial worm.
- 12. Describe the organization of Gastrotricha.

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

- 13. What are the major criteria considered in the classification of animals?
- 14. Explain and differentiate zygotic meiosis and gametic meiosis.
- 15. Describe the salient features of phylum Dinoflagellata. Give an example.
- 16. Elucidate the importance of canal system in sponges.
- 17. Describe the structure and function of tentacles in <u>Pleurobrachia</u>.
- 18. Brief out the salient features of phylum Platyhelminthes.
- 19. Detail out the external morphology of Ascarislumbricoides with a note on it's sexual dimorphism.

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

- 20. What is the role of systematics in classification? Discuss the various approaches employed here.
- 21. Detail the characteristic features of Phylum Ctenophora. Describe any one example.