

FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION, NOVEMBER 2020**Zoology**

ZOL 1B 01T—ANIMAL DIVERSITY : NON-CHORDATA—Part I

(2019 Admissions)

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Questions)*Answer at least **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. Mention the salient features of the phylum Dinoflagellata.
2. What is metamerism ?
3. Explain mutualism with reference to *Trichonympha*.
4. Distinguish between enterocoelom and schizocoelom.
5. What is binomial nomenclature ?
6. What is wheel organ ?
7. What are corals ? Mention an example.
8. Mention the salient features of the subkingdom Mesozoa.
9. Write briefly on a freshwater sponge you have studied.
10. Mention the larval forms of *Fasciola*.
11. Write briefly on polymorphism with reference to *Physalia*.
12. What is lymphatic filariasis ?

(8 × 3 = 24 marks)

Section B (Paragraph Questions)*Answer at least **five** questions.**Each question carries 5 marks.**All questions can be attended.**Overall Ceiling 25.*

13. Explain the development of symmetry in animals.
14. Explain osmoregulation in *Paramecium*.

Turn over

15. Write the five kingdom classification of living organisms.
16. Explain the unique features of the phylum Ctenophora as exemplified by *Pleurobrachia*.
17. With a labeled diagram explain the digestive system of *Dugesia*.
18. Write a note on two human nematode parasites.
19. With a labeled diagram explain the asconoid canal system in sponges.

(5 × 5 = 25 marks)

Section C (Essay Questions)

*Answer any one question.
The question carries 11 marks.*

20. Explain the modern trends in systematics.
21. With a labeled diagram explain the general external morphology of *Obelia*.

(1 × 11 = 11 marks)