

21U119

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Name: .....

Reg.No: .....

**FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U ZOL1 B01 - ANIMAL DIVERSITY -NON CHORDATA -1**

(Zoology - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit: 2

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Differentiate between eubacteria and archaeobacteria.
2. Differentiate between radial, biradial and bilateral symmetry.
3. Distinguish between Protostomia and Deuterostomia.
4. Comment on Vorticella.
5. What are trichocysts and what is its function?
6. Differentiate between Orthonectida and Rhombozoa.
7. What are the biological significance of sponge larvae?
8. What is the ecological importance of Adamsia
9. What is mastax?
10. What is meant by polyembryony?
11. What is filariasis?
12. What is meant by ancylostomiasis? Name the three larval stages of the causative organism.

**(Ceiling: 20 Marks)**

**Part B** (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Give an account on ICZN and explain principle of Priority.
14. Comment on the Molecular taxonomy and DNA barcoding.

15. Explain the structure of contractile vacuoles and nuclear apparatus in Paramecium.
16. Enlist the salient feature of Class Hyalospongiae. Give a brief description of an example species you studied.
17. Describe the general features of Ctenophora and Cydippid larva.
18. What is a statocyst? How does it function?
19. Illustrate the structure and working of a typical protonephredia.

**(Ceiling: 30 Marks)**

**Part C (Essay questions)**

Answer any one question. The question carries 10 marks.

20. Discuss the general characteristics of the Kingdom Protista and classify them down to Phyla with examples.
21. Enlist the differences between the polyp and Medusa of Obelia. Illustrate the structure of Obelia medusae and polyp.

**(1 × 10 = 10 Marks)**

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