

Reg. No

Name

23U134

B. Sc. DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023

SEMESTER 1 : ZOOLOGY

COURSE : 19U1CRZOO1 : ANIMAL DIVERSITY NON-CHORDATA - 1

(For Regular 2023 Admission and Improvement / Supplementary 2022/2021/2020/2019 Admissions)

Time : Three Hours

Max. Marks: 60

PART A

Answer all (1 mark each)

1. Why Rhodophyta is known as red algae?
2. What is spongocoel?
3. Define scientific temper
4. What are comb jellies?
5. What are gemmules?
6. Give the proof for the cnidarian origin of the ctenophores.
7. Define Phylogeny
8. The type of symmetry found in the phylum Platyhelminthes is

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Write a short note on origin of polymorphism in coelentrates.
10. Why science is known to be empirical in nature?
11. What is syngamy?
12. List out the unique features of ctenophores
13. What is meant by radial symmetry? Give an example
14. What are comb jellies? Why they are known as so?
15. How cnidoblasts are different from statocyst?
16. What is meant by Binary fission?

(2 x 6 = 12)

PART C

Answer any 4 (4 marks each)

17. Discuss on Coelom.
18. Evaluate how the mechanism of endomixis is done in *Paramecium* ? Add notes on its significance
19. Reflect on the three major characteristic structures of coral reef with suitable sketches
20. List out the RULES of Binomial nomenclature ?
21. Describe the structure of seagooseberry using neat illustrations. Mention its ecological significance
22. Explain the planes of symmetry

(4 x 4 = 16)

PART D

Answer any 2 (12 marks each)

23. Write an essay on different approaches of Taxonomy
24. Elaborate the process of nutrition and digestion in Paramecium. Use neat illustrations
25. Elucidate the defense structure and defense mechanism in Cnidaria. Use neat diagrams
26. Elucidate the mechanism of water transport system in sponges emphasizing its significance.

(12 x 2 = 24)