

TB221440V

Reg. No :

Name :

B. Sc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
(2022 Admissions (regular) 2021 Admissions (Improvement / Supplementary), 2020, 2019, 2018, Admissions
Supplementary)

SEMESTER I - CORE COURSE (ZOOLOGY)

ZY1B01B18 - GENERAL PERSPECTIVES IN SCIENCE & PROTISTAN DIVERSITY

Time : 3 Hours

Maximum Marks : 60

Part A

I. Answer any Ten questions. Each question carries 1 mark

(10x1=10)

1. Explain a morpheme. Give an example.
2. Define scientific temper.
3. Explain Anabolism.
4. Define Epidemiology.
5. Systematics and Taxonomy are related, How?
6. Identify any 2 differences between sagittal plane and frontal plane.
7. Name any 2 organisms exhibiting radial symmetry.
8. Name any 2 species of *Leishmania* and the disease caused by each.
9. Name 2 pathogenic protists and the disease caused by each.
10. Name two ciliate protist.
11. Classify the following to their respective phyla a) *Paramecium* b) *Actinophrys*.
12. Assign the following to their respective phyla a) *Cryptomonas* b) *Proterospongia*.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Explain the three types of evidences in sciences.
14. Explain Metabolism and its types with suitable examples.
15. Summarize on the history of biology in the modern era and the recent branches that evolved from it.
16. Outline the role of ZSI in the advancement of biological knowledge.
17. Give an account on molecular taxonomy and its applications.
18. Explain the various types of Symmetry, give suitable diagrams.
19. Describe the Infra ciliary system in *Paramecium*.
20. Discuss the method of respiration, excretion and osmoregulation in *Paramecium*.
21. Describe any two photosynthetic Protist.

Part C

III. Answer any Two questions. Each question carries 10 marks

(2x10=20)

22. Summarize on the history of biology stating its landmarks in ancient, middle age and modern era.
23. Which are the different types of Taxonomic Keys? Give suitable examples.
24. Explain the behavior of *Paramecium*.
25. Describe the process of Endomixis in *Paramecium*. Sketch and label. Add a note on Hemixis.