

2023

B.A./B.Sc.

First Semester

CORE – 1

ZOOLOGY

Course Code: ZOC 1.11

(Non-Chordates - I: Protozoans to Pseudocoelomates)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. State eight important characteristics of Protozoa. Classify phylum Protozoa upto classes and give 2 examples each. $4+10=14$
2. Explain with diagrams two types of sexual reproduction in *Paramecium*. $7+7=14$

UNIT-II

3. Illustrate the structural organization of *Leucosolenia*. Add a note on the reproduction and development in *Sycon*. $8+6=14$
4. Describe types of canal system in Porifera. Write an account on the general characters of Porifera and its affinities. $6+4+4=14$

UNIT-III

5. Elucidate the cnidarian *Aurelia* with emphasis on structure and polymorphic life cycle. $6+8=14$
6. What are coral reefs? What are the factors affecting coral reefs? Write a note on the types of coral reef and its importance. $2+3+6+3=14$

UNIT-IV

7. Give the general characteristics and evolutionary significance of Ctenophora. $6+8=14$

8. Sketch to describe the structure and reproduction of *Fasciola hepatica*.
Mention its pathogenicity. 6+6+2=14

UNIT-V

9. Write ten general characters of Nematelminthes. Classify the phylum
Nematelminthes upto classes with examples. 5+9=14
10. Describe life cycle of *Ascaris* with a diagram. Write the morphological
parasitic adaptations in helminths. 10+4=14
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