



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment – I August, 2025
I Semester

Class : I BSc
Branch : Zoology

Time : 2 Hours
Max. Marks : 60

23BZOC01 SYSTEMATICS AND DIVERSITY OF LIFE PROTISTS TO CHORDATES

Course Outcomes:

- CO1. Develop understanding on the diversity of protists, non chordates and chordates.
CO 2. Understanding the concepts of how animals changed from a primitive cell to simple cells.
CO 3. Examine the diversity and evolutionary history of a taxon through the construction of a basic phylogenetic/ cladistics tree.
CO 4. Understand the role of morphological changes in bringing out the evolution over a long period of time.
CO 5. Acquire skill in identification of invertebrate and vertebrates in their habitats.

Part A

6 x 1 = 6

Choose the Correct Answer

- | | | | | | |
|---|-----------------------------------------------|-----------------|-----------------|---------------|--------|
| 1 | What is the basic unit of classification | | | | CO1K5 |
| | a. order | b. Phylum | c. genus | d. species | |
| 2 | Carolus Linnaeus system of nomenclature is | | | | CO1K2 |
| | a. natural | b. binomial | c. phylogenetic | d. artificial | |
| 3 | Radial symmertry is best seen in | | | | CO2K5 |
| | a. Mollusca | b. Sponge | c. Star fish | d. Fishes | |
| 4 | Coelom produced from mesoderm cells is called | | | | CO3 K4 |
| | a. Schizocoel | b. Enterorocoel | c. Pseudocoel | d. Gut | |
| 5 | Pseudocoelom develops from | | | | CO3K1 |
| | a. Hydrocoel | b. Blastocoel | c. Gut | d. mesoderm | |
| 6 | Skeleton of sponge is secreted by | | | | CO3K2 |
| | a. sclerocyte | b. chromocyte | c. myocyte | d. thesocyte | |

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 7a Give a brief account on Systematics (or) CO1K3
7b Categorize utility of scientific names and Nomenclature CO1 K3
8a Illustrate the bilateral and radial symmetry (or) CO2K2
8b Differentiate between diploblastic and triploblastic organization CO2K1
9a Comment on basic organization of roundworms (or) CO2K4
9b Write a note on ancestors/ fossil arthropods CO3K5

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 10a Classify the animal kingdom with an example (or) CO1K1
10b Elaborate the term Multicellularity CO2K2
11a Infer the structural diversity in sponges (or) CO2K5
11b Confer the coral reef forming cnidarians CO2K1
12a Write an essay on basic organization and diversity in Arthropodes (or) CO3K5
12b Basic organization of Echinodermata and their affinity to Chordates. CO3K4