

# SYLLABUS OF ZOOLOGY

## Paper-II BIODIVERSITY & ECOLOGY - II (ZOO-202)

Max. Marks	: 40
Theory Exam.	: 36 marks
Internal Assessment	: 4 marks
Time	: 3 hours

Note : Nine questions are to be set. Question No.1 is compulsory consisting of short answer type questions covering the whole syllabus. It will have 8 parts of 1 mark each. Two questions are to be set from each Unit. One question is to be attempted from each Unit. In all, Five questions are to be attempted including compulsory one. 50% of the questions are to be split up into 2-4 sub-parts.

### UNIT - I

Detailed study of the following animal type:

Mollusca : *Pila*

Classification up to orders with ecological notes and economic importance (if any)

Mollusca : *Chiton, Anodonta, Mytilus, Ostrea, Cardium, Pholas, Solen* (Razor Fish),  
*Pecten, Haliotis, Patella, Aplysia, Doris, Limax, Loligo, Sepia, Octopus,*  
*Nautilus and Dentalium*

### UNIT - II

Detailed study of the following animal types:

Echinodermata : *Asterias, Echinoderm Larvae.*  
Hemichordata : *Balanoglossus, External characters and affinities.*

Classification up to orders with ecological notes and economic importance (if any)

Echinodermata : *Echinus, Cucumaria, Ophiothrix, Antedon and Asterias.*  
Hemichordata : *Balanoglossus.*

### UNIT - III

Inter and intra ecological relationships : Competition, predation, parasitism, commensalism, ammensalism & mutualism  
Biotic community : Characteristics, ecological succession, ecological niche.

### UNIT - IV

Natural resources : Renewable and nonrenewable natural resources and their conservations.  
Environmental Degradation : Causes, impact and control of environmental pollution.  
(Air, Water, Land, Noise)  
Wildlife conservation : National Park and Sanctuary, IUCN Red list, projects (tiger and crocodile),  
Wildlife (Protection) Act, 1972 (Hunting and Trade)

## ACTIVITIES ON ENVIRONMENT AND SUSTAINABILITY

**Name of Event:** Seminar on waste management through Vermicomposting and hands-on experience emphasizing on Causes, impact and control of environmental pollution.

**Date of Event:** September 26<sup>th</sup>, 2023

**Venue:** Vermicomposting unit at GCG, Ludhiana

**Organised by:** Zoology department

**No. of students benefitted:** 150

### Report:

The Zoology department of Government College for Girls, Ludhiana organized a seminar on waste management through vermicomposting, followed by a hands-on experience at the vermicomposting unit located in our college campus. The event aimed to raise awareness about sustainable waste management practices and educate participants on the benefits of vermicomposting.



Students were taken to the college's vermicomposting unit.



The seminar and hands-on experience on waste management through vermicomposting proved to be an informative and engaging event.

Students gained a deeper understanding of vermicomposting as an eco-friendly waste management solution and acquired practical skills that can be applied in their daily lives.

We extend our gratitude to *Mrs. Kiran Gupta Ji, Dr. Falwinder Verma Ji* and *Ms. Ramanjit Bhatti Ji* for sharing valuable knowledge and expertise during the seminar and for organizing this enlightening event.