

**Semester Pattern: 2024-25**  
**Instructions to submit Third Semester Assignments**

1. Following the introduction of semester pattern, it becomes **mandatory for candidates to submit assignment for each course.**
2. Assignment topics for each course will be displayed in the A.U, CDOE website (**[www.audde.in](http://www.audde.in)**).
3. Each assignment contains 5 questions and the candidate should answer all the 5 questions. Candidates should submit assignments for each course separately. (5 Questions x 5 Marks =25 marks).
4. Answer for each assignment question should not exceed 4 pages. Use only A4 sheets and write on one side only. **Write your Enrollment number on the top right corner** of all the pages.
5. Add a template / content page and provide details regarding your Name, Enrollment number, Programme name, Code and Assignment topic. Assignments without template / content page will not be accepted.
6. Assignments should be handwritten only. Typed or printed or photocopied assignments will not be accepted.
7. **Send all Third semester assignments in one envelope.** Send your assignments by Registered Post to The Director, Centre for Distance and Online Education, Annamalai University, Annamalai Nagar – 608002.
8. Write in bold letters, “**ASSIGNMENTS – THIRD SEMESTER**” along with PROGRAMME NAME on the top of the envelope.
9. Assignments received after the **last date with late fee** will not be evaluated.

**Date to Remember**

Last date to submit Third semester assignments : **15.04.2025**

Last date with late fee of Rs.300 (three hundred only) : **30.04.2025**

**Dr. T. SRINIVASAN**  
Director

# **ZOOLOGY WING**

## **Assignment Questions**

### **M.Sc. Zoology - II – Year - III - Semester**

#### **021E2310 –BIOTECHNOLOGY**

1. Write an essay on Genetic Engineering and its application.
2. Define Gene- Write an detailed account on Gene therapy.
3. Describe the bio-control on insect pest.
4. Explain the mushroom culture and its economic importance.
5. Explain Biomass conversion and its uses.

#### **021E2320- IMMUNOLOGY**

1. Describe cell mediated immunity and innate immunity.
2. Explain the primary and secondary lymphoid organs
3. Describe the classification and function of immunoglobulins
4. Explain Radio immunoassay (RIA) and Enzyme linked immunosorbent assay.
5. Describe the structure and function of immunoglobulins.

#### **021E2330-ENVIROMENTAL BIOLOGY AND TOXICOLOGY**

1. Explain social forestry and conservation.
2. Write an essay on sources and control measures of water pollution.
3. Discuss the environmental protection Act (1986).
4. Explain the various factors influencing toxicity.
5. Explain the membrane permeability and mechanism of toxicants action.