



**TAMIL NADU OPEN UNIVERSITY**  
**Chennai - 15**  
**School of Sciences**

**HOME / SPOT ASSIGNMENT**

Programme Code No : 284  
Programme Name : II M.Sc., Zoology  
Course Code & Name : Developmental Biology and Immunology (MZO-21)  
Batch : AY 2020-21  
No. of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks: 15 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

- 1) Explain the molecular events of fertilization.
- 2) Detail account of the development of gametes.
- 3) Comment on the followings;
  - a) Morphogenetic movements
  - b) Formation of extra embryonic membranes
  - c) Totipotency and pluripotency

**ASSIGNMENT – 2**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

- 1) Detail account of the regenerative ability in various invertebrates and vertebrates.
- 2) Elaborate the cellular immune system.
- 3) Explain the structure and functions of secondary lymphoid organs.

**ASSIGNMENT – 3**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

- 1) Detail account of tumour immunology.
- 2) Discuss – antigen and antibody.
- 3) Explain the MHC and autoimmune diseases.

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**ASSIGNMENT – 2**

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Programme Code No : 284  
Programme Name : M.Sc. Zoology  
Course Code & Name: Biotechnology & Microbiology (**MZO-23**)  
Batch : AY 2020-21  
No. of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks: 15 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Detail account of the gene cloning strategies.
2. Give a detailed account on DNA sequencing and DNA finger printing.
3. Discuss the principle and applications of PCR.

**ASSIGNMENT – 2**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Write down the applications of biotechnology in medicine and agriculture.
2. Give a detailed account on the bacterial culture techniques.
3. Explain the causative agent's mode of transmission and treatment of AIDS.

**ASSIGNMENT – 3**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

- 1) Elaborate on the causative agents mode of transmission control and treatment of Polio.
- 2) Detail account on the causative agents mode of transmission control and treatment of Tuberculosis.
- 3) Elaborate on the causative agents mode of transmission control and treatment of Cholera.



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**HOME / SPOT ASSIGNMENT**

Programme Code No : 284  
Programme Name : II M.Sc. Zoology  
Course Code & Name: Aquaculture (**MZO-24**)  
Batch : AY 2020-21  
No. of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks: 15 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Elaborate on the scope of aquaculture in India.
2. Explain the aquaculture system.
3. Detail account of the integrated farming.

**ASSIGNMENT – 2**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Detail account of disease management in aquaculture.
2. Elaborate on various important parameters involved in aquaculture.
3. Give a detailed account on oyster culture.

**ASSIGNMENT – 3**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Detail account on marketing of fish products.
2. Elaborate on the canning and freezing of fish products.
3. Explain the common species of ornamental fish culture.



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**HOME / SPOT ASSIGNMENT**

Programme Code No : 284  
Programme Name : II-M.Sc. Zoology  
Course Code & Name: Environmental Biology and Evolution (**MZO-25**)  
Batch : AY 2020-21  
No. of Assignment : One Assignment for Each 2 Credits  
Maximum CIA marks: 15 (Average of Total No. of Assignments)

**ASSIGNMENT – 1**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Elaborate on the biogeochemical cycles.
2. Explain the nature and flux of energy through communities.
3. Give a detailed account on the adaptation of coastal ecosystem.

**ASSIGNMENT – 2**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Elaborate on the energy resources.
2. Give a detailed account on the solid waste and industrial waste management.
3. Explain the theory of evolution.

**ASSIGNMENT – 3**

Max :15 marks

**Answer any one of the question not exceeding 1000 words**

1. Elaborate on the genetic evolution.
2. Give a detailed account on mimicry
3. Explain the isolation and isolating mechanism of evolution