

**Dr. Ambedkar Open University**  
**Faculty of Science**  
**Department of Zoology**  
**M.Sc Second Year (Zoology)**  
**Course-V (Immunology)**  
**Assignment-1 (2018-2019)**

Maximum Marks-15  
Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines**
1. Write in detail about Secondary Lymphoid organs.
  2. Discuss immunodiagnosis and the different approaches of Immunotherapy.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on Major Histocompatible complex (MHC) molecules.
  2. Write a note on Hepatitis.

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**M.Sc Second Year (Zoology)**  
**Course-V (Immunology)**  
**Assignment-2 (2018-2019)**

Maximum Marks-15  
Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Discuss about the Organ – specific Autoimmune diseases.
  2. Discuss in detail on Antibody production.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Write about cells involving in Antigen processing and presentation.
  2. Explain the mechanism of graft rejection with suitable diagram.

**Faculty of Science  
Department of Zoology  
M.Sc Second Year (Zoology)  
Course-VI (Animal Biotechnology)  
Assignment-1 (2018-2019)**

Maximum Marks-15

Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Write in detail about the working of Laminar Flow.
  2. Explain in detail about the production of any three antibiotics.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on Blood Brain Barrier.
  2. Discuss about the two methods of Vermicomposting.

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Course-VI (Animal Biotechnology)  
Assignment-2 (2018-2019)**

Maximum Marks-15

Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Discuss about the advantages of Generation of transgenic animals.
  2. Describe in detail about Polymerization Chain Reaction (PCR).

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Write about the clinical uses of HSC (Hematopoietic Stem Cells).
  2. Write a note on the various types of Chromatography.

**Department of Zoology**  
**M.Sc Second Year (Zoology)**  
**Course-VII (Toxicology of Insecticides)**  
**Assignment-1 (2018-2019)**

Maximum Marks-15  
Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Describe briefly the Presynaptic and Postsynaptic mechanism.
  2. Write an essay on Chitin synthesis inhibitors.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Discuss about the selective toxicity of Carbamates.
  2. What are the basic process involved in the Photodegradation of Insecticides.

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**Course-VII (Toxicology of Insecticides)**  
**Assignment-2 (2018-2019)**

Maximum Marks-15  
Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Discuss the toxicity, Mode of Action and Metabolism of Carbamates.
  2. Write in detail about Cytochrome P-450 dependent Mono-Oxygenase systems.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Discuss about Arsenic compounds.
  2. Write about the enzymes involved in Pyrethroid Degradation.

**Dr. Ambedkar Open University**  
**Faculty of Science**  
**Department of Zoology**

**M.Sc Second Year (Zoology)**  
**Course-VIII A (Applied Entomology)**  
**Assignment-1 (2018-2019)**

Maximum Marks-15  
Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Describe the various types of mouthparts found in insects.
  2. Discuss the biology and control of the insects responsible for the transmission of plague.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on principles of Integrated Pest Management.
  2. Write a note on the preparation of Shellac and Button lac.

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**Course-VIII A (Applied Entomology)**  
**Assignment-2 (2018-2019)**

Maximum Marks-15  
Minimum Marks-06

**Section- A (10 marks)**

- I. Answer any one of the following questions in about 30 lines.**
1. Describe the various pests of Cotton and suggest various practices that can be adopted to manage these pests.
  2. Describe the Bacterial and Fungal diseases of Silkworm along with its control measures.

**Section –B (5marks)**

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on Diapause.
  2. Describe the different types of soldiers found in Termites and their function.

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**Faculty of Science  
Department of Zoology  
M.Sc Second Year (Zoology)  
Course-VIII B (Applied Aquaculture)  
Assignment-1 (2018-2019)**

Maximum Marks-15

Minimum Marks-06

**Section- A (10 marks)**

**I. Answer any one of the following questions in about 30 lines.**

1. Write in detail on the causes of Aquatic pollution.
2. Write a note on Protozoan diseases of fishes.

**Section –B (5marks)**

**II. Answer any one of the following questions in about 15 lines.**

1. Write a short note on gene flow in Aquatic Genetically Engineered Organism (GEOS).
2. Explain the Integrated farming of fresh water aquaculture and its Importance.

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Assignment-2 (2018-2019)**

Maximum Marks-15

Minimum Marks-06

**Section- A (10 marks)**

**I. Answer any one of the following questions in about 30 lines.**

1. Write in detail about Nucleases.
2. Give a brief account on different types of Hatcheries.

**Section –B (5marks)**

**II. Answer any one of the following questions in about 15 lines.**

1. Give a detailed account on Viral Haemorrhagic Septicemia of Rainbow Trout (VHS).
2. Write a note on Semi-intensive and Intensive rearing of Prawn PL to Juveniles.