

Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-V (Immunology)
Assignment-1 (2017-2018)

Maximum Marks-15
Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines**
1. Write a brief account on innate and acquired immunity.
 2. Explain various mechanisms involved in the regulation of immune response.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on Vaccines.
 2. Write a short note on Immunofluorescence

Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-V (Immunology)
Assignment-2 (2017-2018)

Maximum Marks-15
Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. What is autoimmunity? How it occurs? Classify the autoimmune diseases.
 2. Describe the organization and function of primary and secondary lymphoid organs in human body.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a short note on immunoglobulin molecule.
 2. Explain pathways for antigen presentation.

Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VI (Animal Biotechnology)
Assignment-1 (2017-2018)

Maximum Marks-15
Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. What is pluripotent stem cell? Explain potential of different stem cells
 2. Write an essay on the biotechnological tools for disease diagnosis in aquaculture.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on Sterilization.
 2. Write a note on uses of immobilized enzymes.

Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VI (Animal Biotechnology)
Assignment-2 (2017-2018)

Maximum Marks-15
Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. Discuss in detail on the organization of different types of muscles.
 2. Explain the principle, types and applications of Bioremediation.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on the application of monoclonal antibodies.
 2. Write a short note on therapeutic uses of enzymes

**Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VII (Toxicology of Insecticides)
Assignment-1 (2017-2018)**

Maximum Marks-15

Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. Explain how rotenone shows relatively low toxicity to most mammals but very toxic to insects and fish.
 2. How do the pyrethroids get metabolized in general?

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on the general properties of cytochrome P-450.
 2. Describe the concept of Dose -response

**Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VII (Toxicology of Insecticides)
Assignment-2 (2017-2018)**

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 effect of chemical agents on insect cuticle.
 2. Describe in detail about the effect of insecticides on ionic channels.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on Toxicity and mode of action of cyclodienes.
 2. How does the hardening of insect cuticle take place after ecdysis?

**Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VIII A (Applied Entomology)
Assignment-1 (2017-2018)**

Maximum Marks-15

Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. Discuss in detail the pests of coconut in India along with its biology and management practices.
 2. Write in detail about the diseases of silk worm.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on the order Diptera and Lepidoptera.
 2. Write a note medical importance of fleas

**Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VIII A (Applied Entomology)
Assignment-2 (2017-2018)**

Maximum Marks-15

Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. What are the different ways by which the aquatic insects respire?
 2. Explain in detail the social behaviour of honey bee.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a note on biting and chewing type of mouthparts.
 2. Write a note on advantages of transgenic plants.

**Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VIII B (Applied Aquaculture)
Assignment-1 (2017-2018)**

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 endo and exonucleases.
 2. Write a note on the viral diseases of fishes.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Explain hypophysation technique in Indian major carps.
 2. Write a short note on fish –livestock/poultry integrated farming.

**Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-VIII B (Applied Aquaculture)
Assignment-2 (2017-2018)**

Maximum Marks-15

Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines.**
1. Write a note on the protozoan diseases of fishes.
 2. Write in detail about prawn diseases.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write a short note on different types of hatcheries.
 2. Write a short note on spirullina culture technique.