

Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-V (Immunology)
Assignment-1 (2021-2022)

Maximum Marks-15
Minimum Marks-06

Section- A (10 marks)

- I. Answer any one of the following questions in about 30 lines**
1. Describe in detail on type III and type IV hypersensitivity reactions.
 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 immune response to bacterial infections.
 2. Write a short note on RIA, ELISA and Immunofluorescence

Dr. Ambedkar Open University
Faculty of Science
Department of Zoology
M.Sc Second Year (Zoology)
Course-V (Immunology)
Assignment-2 (2021-2022)

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 various types of vaccines.
 2. Describe the organization and function of secondary lymphoid organs in human body.

Section –B (5marks)

- II. Answer any one of the following questions in about 15 lines.**
1. Write about organ –specific autoimmune diseases.
 2. Explain pathways for antigen presentation.

Dr. Ambedkar Open University
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Department of Zoology
M.Sc Second Year (Zoology)
Course-VI (Animal Biotechnology)
Assignment-1 (2021-2022)

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. 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 cytoplasmic and nuclear oncoproteins.
2. Write a note on uses of immobilized enzymes.

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Course-VI (Animal Biotechnology)
Assignment-2 (2021-2022)

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 adult stem cells? Explain different sources of adult stem cells.
2. Explain in detail about the production of any two antibiotics.

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 various types of genetically engineered microbes (GEM).

Dr. Ambedkar Open University
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Department of Zoology
M.Sc Second Year (Zoology)
Course-VII (Toxicology of Insecticides)
Assignment-1 (2021-2022)

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

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M.Sc Second Year (Zoology)
Course-VII (Toxicology of Insecticides)
Assignment-2 (2021-2022)

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. Write a note on Juvenile hormone mimics.

Dr. Ambedkar Open University
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Department of Zoology
M.Sc Second Year (Zoology)
Course-VIII A (Applied Entomology)
Assignment-1 (2021-2022)

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

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Course-VIII A (Applied Entomology)
Assignment-2 (2021-2022)

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.

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M.Sc Second Year (Zoology)
Course-VIII B (Applied Aquaculture)
Assignment-1 (2021-2022)

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.

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Assignment-2 (2021-2022)

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.