



**DR B.R.AMBEDKAR OPEN UNIVERSITY, HYDERABAD.
FACULTY OF SCIENCES, STML BUILDING
DEPARTMENT OF ZOOLOGY
M.Sc., SECOND YEAR, ZOOLOGY (2022-23)**

Max. Marks:15

Min. Marks: 06

**COURSE-5, ASSIGNMENT-1
(IMMUNOLOGY)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Detail the role of immunoglobulin in immune system.
 2. Explain how vaccines saved human life during COVID-19.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. What is the role of lymphoid organs in immunity?
 2. Explain how do you regulate immune response.

Max. Marks:15

Min. Marks: 06

**COURSE-5, ASSIGNMENT-2
(IMMUNOLOGY)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Explain immunity responses to human parasitic diseases.
 2. Explain how autoimmunity favours in protection from various diseases.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. How do you control infectious diseases existing in your locality.
 2. Explain immunodiagnosis techniques.



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**COURSE-6, ASSIGNMENT-1
(ANIMAL BIOTECHNOLOGY)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Detail how biotechnology favored improvement of agriculture in India.
 2. Explain role of vectors in in-Vitro fertilization.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. What is the importance of stem cell?
 2. Earthworms are farmer friends- justify the statement.

Max. Marks:15

Min. Marks: 06

**COURSE-6, ASSIGNMENT-2
(ANIMAL BIOTECHNOLOGY)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Explain how composting is better option compared to synthetic fertilizers use in agriculture.
 2. Explain application of bioremediation in environmental protection.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. Write about equipment used in industrial biotechnology.
 2. Explain how invention of penicillin and its use is a historic event in medicine- justify the statement.



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**COURSE-7, ASSIGNMENT-1
(TOXICOLOGY OF INSECTICIDES)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. How do you evaluate insecticide toxicity?
 2. Explain how do you manage insecticide resistance.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. Azaridacta indica is a antifeedant and antifertility compound....justify the statement.
 2. Explain toxicity of DDT.

Max. Marks:15
Min. Marks: 06

**COURSE-7, ASSIGNMENT-2
(TOXICOLOGY OF INSECTICIDES)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Use of insecticides is order of the day, and explain intoxication consequences.
 2. Explain how sex pheromones are useful in agriculture in controlling pests.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. What are the health hazards seen in farmers exposed to insecticides.
 2. How do you do synergism and antagonism?



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**COURSE-8A, ASSIGNMENT-1
(APPLIED ENTOMOLOGY)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. What is integrated pest management, explain how it helps in controlling crop pests.
 2. Detail about silkworm and uses of silk.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. How do you control insects that are harmful to humans.
 2. Explain how forensic entomology is helpful in various investigations.

Max. Marks:15

Min. Marks: 06

**COURSE-8A, ASSIGNMENT-2
(APPLIED ENTOMOLOGY)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Write about morphology of an insect and adaptability to damage various crops.
 2. Detail about honey bees and uses of honey.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. Explain traditional stored grain pest management.
 2. Migration favours for better habitat and lifecycle of pest. Justify the statement.



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**COURSE-8B, ASSIGNMENT-1
(APPLIED AQUACULTURE)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Fisheries is better crop for upliftment of fishermen. Explain.
 2. How do you culture natural foods that can be fed to fish.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. Pearl culture a better crop. Justify the statement
 2. How do you control infectious parasitic diseases in fish.

Max. Marks:15

Min. Marks: 06

**COURSE-8B, ASSIGNMENT-2
(APPLIED AQUACULTURE)**

Section – A (10 marks)

- I. Answer any one of the following in about 30 lines (Draw diagrams, flow charts wherever necessary)
1. Explain how soil and water quality plays vital role in fisheries.
 2. Explain prawn culture techniques.

Section – B (5 marks)

- II. Answer any one of the following in about 15 lines (Draw diagrams, flow charts wherever necessary)
1. Explain the role of pituitary gland in fish breeding.
 2. How do you identify various virus diseases in fish?