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Subject Title: Immunology and Animal Biotechnology Prepared by: Mohammadi sultana

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Unit - I: Immunology

Short Answers:

- 1. Basics concepts of immunology
- 2. Edward Jenner contribution to immunology.
- 3. Describe in detail about cell of immune system.
- 4. Explain primary and secondary lymphoid organs of immune system.
- 5. Write short notes on B and T cell epitopes.
- 6. Write short notes on Haptens and Adjuvants.

Long Answer:

- 7 Define immunity and describe types of immunity with suitable example.
- 8. Write an essay on Innate immunity.
- 9. Write an essay on Acquired immunity.
- 10. Define basic properties of antigens.
- 11. Describe the structure, properties and function of immunoglobulins.
- 12. Explain the process of Antigen-Antibody Reaction.
- 13. Explain how the activation of B-cell takes place in immune system.
- 14. Activation of T-cell takes place in immune system
- 15. Explain about Monoclonal Antibodies and production of their monoclonal Antibodies with suitable examples.

Unit - II: Immune system in health and disease.

Short Answers:

- 1. Write short notes on Cytokines and Interferon.
- 2. Long Answers:
- 3. Explain about Major Histocompatibility Complex and its types.



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- 4. What is complement protein explain in detail about complement system.
- 5. Write an essay on Humoral immune response.
- 6. Explain in detail about the cell-mediate immunity.
- 7. Define Hypersensitivity and explain the type of hypersensitivity.
- 8. Define Autoimmunity and give an account of various Autoimmune diseases.
- 9. Define Immunodeficiency and give an account of various immunodeficiency diseases.
- 10. What is Vaccines and explain in detail about types of vaccines.

Unit – III; Animal Biotechnology.

Short Answers;

- 11. Define the scope and importance of Animal biotechnology.
- 12. Write short notes on Cloning vectors, Plasmids, Cosmids.
- 13. Give a detail study on Lambda Bacteriophage and YAC.

Long Answers:

- 14. Define a Cloning and explain in detail about methods of cloning in cell, animals and gene cloning.
- 15. Define Recombinant DNA technology with its application.
- 16. Explain in detail about Transgenic animals and production of transgenic animals with application.
- 17. Describe Transgenesis and methods of Transgenesis.
- 18 Explain in detail about Transgenic animals and production of transgenic animals with application.
- 19 Define stem cells and types of stem cells.