

MODEL QUESTION PAPERS(Semester - End)

B .Sc DEGREE EXAMINATIONS

SEMESTER - IV

Course - 5: IMMUNOLOGY AND ANIMAL BIOTECHNOLOGY

Time: 3hrs.

Max. Marks: 75

Section - A

Answer any FIVE of the following:

5x5=25

Draw labeled diagrams wherever necessary

1. Vaccines
2. Primary lymphoid organs
3. Hapten
4. Hypersensitivity
5. Natural media
6. Cell lines
7. Endo nucleases
8. Polyploidy in fishes

Section - B

Answer any FIVE of the following.

5x10=50

Draw labeled diagrams wherever necessary

9. a. Define immunity. Write in detail about innate immunity.

OR

- b. Explain various cells of immune system

10. a. Describe the structure of antibody. Add a note on their functions.

OR

- b. Describe the structure of MHC molecules. Discuss their role in the mechanism of exogenous and endogenous pathway of antigen processing and presentation

11. a. Write an essay on different types of stem cells and their applications

OR

- b. Explain the production and applications of monoclonal antibodies.

12. a. Write an account on recombinant DNA technology.

OR

- b. Write an essay on transgenic animals

13. a. Explain hybridization techniques.

OR

- b. Write an essay on PCR