Third Semester M.Sc. Degree Examination (CSS) - Zoology

ZY3CT 14 Course XIV – IMMUNOLOGY

Time: 3Hours	Total Weight: 30
	8

Section I -Short answer type questions

Weight -1

Answer any 10 out of 12

- 1. What are CDRs?
- 2. Differentiate between hapten and antigen.
- 3. Mention the effect of papain and pepsin on immunoglobulins.
- 4. Write a note on attenuated vaccines with an example.
- 5. Briefly explain the HLA locus.
- 6. Mention the role of NK cells in immunity
- 7. Comment on the terms: cross reactivity, sensitivity, specificity and reliability.
- 8. Differentiate between Allograft and Autograft.
- 9. What is the role of inflammatory cells in immunity?
- 10. Comment on the characteristic features of SLE.
- 11. What is meant by serum sickness?
- 12. Write a note on PRRS.

Section – II Short essay type questions

Weight-2

Answer any 5 out of 8

- 13. Describe the factors affecting immunogenicity.
- 14. Explain the role of MHC proteins in cell mediated lysis.
- 15. Give an account on the applications of monoclonal antibodies.
- 16. Describe the role of cytokines in immunogenic reactions.
- 17. Explain the immune responses shown to viral, bacterial and parasitic infections.
- 18. Discuss the role of secondary lymphoid organs in immunity.
- 19. Give an account on HAT medium and its applications in immunology.
- 20. What are the roles played by mast cells and basophils in allergy?

Section III- Long essay type questions

Weight-5

Answer any 2 out of 3

- 21. a) Mention the evidences that implicate CD4⁺T cells, MHC, and TCR in autoimmunity.
 - b) What are the modern methods used in the treatment of autoimmune diseases.
- 22. Give an account of the different types of vaccines available today. Highlight their advantages and disadvantages.
- 23. Explain the genetic basis of antibody diversity.