



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF SCIENCE (ANIMAL HEALTH)

SZH 204: INTRODUCTION TO IMMUNOLOGY

DATE: Wednesday 28th March 2012

TIME: 4.30p.m -6.30p.m

INSTRUCTIONS

Answer ALL questions from Section A and any ONE Question from Section B. Within a Section, questions carry equal marks. Illustrate your answers with diagrams and give examples where appropriate.

SECTION A: Answer ALL questions (40 marks)

1. Describe type I hypersensitivity reactions.
2. Differentiate between innate and adaptive immunity.
3. Outline the factors that influence immunogenicity of antigens.
4. Explain the role of mucous membranes in innate immunity.
5. Describe the basic structure and function of an immunoglobulin molecule.
6. Distinguish between thymus dependent and thymus independent antigens.
7. Describe briefly the architecture of the immune system.
8. Using four examples show evidence that tissue graft reactions are immunological reactions.

SECTION B: Answer ONE question (30 marks)

9. Write an essay on central lymphoid organs.
10. Describe in detail any **FOUR** immunological techniques used in biomedical research.
11. Give a detailed account on **FIVE** named autoimmune diseases.