



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

INSTITUTION BASED PROGRAMME (IBP) DECEMBER SESSION EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 307: FUNDAMENTALS OF IMMUNOLOGY

DATE: Friday 4th May 2012

TIME: 11.00a.m – 1.00p.m

INSTRUCTIONS

Answer all questions in Section A and only ONE Question in Section B. Use well labelled diagrams to illustrate your answer wherever possible.

SECTION A: (40 MARKS)

1. Explain cell mediated immune responses.
2. Describe briefly the different classes of leucocytes in invertebrates.
3. Describe briefly the role of bone marrow and thymus in immunity.
4. Describe briefly the structure and functions of mast cells.
5. Explain type II hypersensitivity reactions.
6. Explain briefly the different types of antigens.
7. Explain the factors that maintain a foetus as a graft in the uterus.
8. Describe briefly the different types of vaccines and their role in immunology.

SECTION B: (30 MARKS)

9. Discuss the following:
 - a) The different strategies employed by pathogens to evade the immune system
 - b) Autoimmunity
10. Discuss the functions and structural properties of various immunoglobulins.