



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2008/2009

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE

SZL 407: ADVANCED IMMUNOLOGY

DATE: Monday, 1st December, 2008

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS:

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

SECTION A: Answer **ALL** questions.

1. Describe briefly the amplification loop of the Alternate Pathway of Complement
2. Describe briefly the role of Cytokines in haemopoiesis.
3. Distinguish Type III and IV hypersensitivity reactions. Give examples of each.
4. Distinguish Cytokines and antibodies
5. Describe the nature of tumor antigens
6. Describe briefly the causes of tolerance breakdown.
7. Describe enhanced attachment of phagocytic cells
8. Briefly describe consequences of complement deficiency

SECTION B:

9. Write an essay on mechanisms used by microbes to avoid phagocytosis.
10. Discuss the role of cytokines in regulatory immune responses
11. Write an essay on tumors.