



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2009/2010
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF
SCIENCE

SZL 543: MOLECULAR IMMUNOLOGY AND IMMUNOGENETICS

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DATE: FRIDAY 9TH APRIL 2010

TIME: 9.00 A.M. – 12.00 NOON

INSTRUCTIONS

All questions carry equal marks.

Illustrate your answers with diagrams and give examples wherever appropriate.

Answer any four questions.

1. Describe the occurrence, causes and detection of haemoglobinopathies.
2. Describe the construction of a polyvalenvaccine.
3. Explain in detail the following procedures:
 - a) Agarose gel electrophoresis
 - b) Hybridization analysis
4. Describe the molecular mechanisms involved in the generation of antibody diversity
5. Give an account of the future potential applications of the results of the Human Genome Project