



# KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

**SZL 548: IMMUNOCHEMICAL TECHNIQUE**

**DATE: MONDAY, 29<sup>TH</sup> NOVEMBER 2010**

**TIME: 9.00 A.M. - 12.00 P.M.**

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**INSTRUCTIONS:** Answer any FOUR Questions.

All Questions carry equal marks.

Illustrate your answers with diagrams and give examples where appropriate.

1. Describe in detail a bioassay that can be used to measure IL-2 responses in a vaccination protocol.
2. Discuss DNA cloning by use of bacteria and polymerase chain reaction.
3. Discuss principles and application of the following procedures:
  - (a) Phase-contrast microscopy
  - (b) Sandwich ELISA
4. Write an essay on tissue culture systems.
5. Describe in details a technique that one can use to identify an antigen with vaccine potential for trypanosomiasis.

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