



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
MASTER OF SCIENCE

SZL 513: CYTOGENETICS OF ANTHROPODS

DATE: Wednesday, 30th November, 2011

TIME: 9.00 – 12.00 noon

INSTRUCTIONS:

- **ALL Questions carry equal marks.**
- **Illustrate your answers with diagrams wherever appropriate.**
- **Answer any FOUR Questions.**

- 1) Discuss the molecular basis of sex-linked inheritance in a named arthropod
- 2) Discuss the process of meiotic division.
- 3) Give an account of the sequencing of the mosquito genome and how it is a breakthrough in public health.
- 4) Describe the techniques used to determine the following parameters:
 - (a) Viscosity of DNA
 - (b) Chromosome banding
- 5) Write an essay on point- and-multisite mutations.