



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE
SZL 413: POPULATION GENETICS

DATE: Wednesday 30th November, 2011

TIME: 11.00 a.m. – 1.00 p.m.

SECTION A: Answer ALL questions.

1. Explain the interpretation and relevance of a Mendelian population.
2. Explain intelligence in Man.
3. Explain the meaning of the following terminologies:
 - (a) euploidy
 - (b) aneuploidy
 - (c) polyploidy
4. Explain why?
 - (a) Infertility and sterility of ten frustrates a couple
 - (b) Adoption may become impossible in future.
5. Discuss briefly how anonychia malfunction is transmitted.
6. Describe briefly the methods used in pregnancy termination.
7. Explain dominant trait and its applications.
8. Explain the factors governing the individual longevity in human.

SECTION B – Answer any 1 question.

9. Discuss the role of genes, hormones, and the environment in population genetics.
10. Write an essay on the relevance and application of genetic evaluation and counseling.

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