



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2009/2010
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE
SZL 314: MEDICAL GENETICS

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DATE: FRIDAY 9TH APRIL 2010

TIME: 2.00 P.M. – 4.00 P.M.

INSTRUCTIONS

Answer ALL Questions in Section A and any one Question in Section B.
In each Section, Questions carry equal marks.

SECTION A (40 MARKS)

Answer ALL Questions.

- Q.1 Describe briefly the structure of a gene.
- Q.2 Briefly describe chromosomal inversions.
- Q.3 Explain intermediate inheritance giving its key factors.
- Q.4 Outline genetic skeletal disorders.
- Q.5 Briefly describe the role of Genetic engineering in medical studies.
- Q.6 Briefly describe the Genetic neurological disorders.
- Q.7 Explain the Genetics of Sickle Cell Anaemia.

Q.8 Explain the following terms

- a) G-Banding
- b) Q-banding

SECTION B (30 MARKS)

Q.9 Write an essay on Mechanisms of Genetic expression.

- Q.10
- a) Write an essay on genetic counseling
 - b) Describe procedures used in the diagnosis of medical genetic abnormalities.