



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION

SZL 304: EVOLUTIONARY BIOLOGY

DATE: WEDNESDAY, 30TH NOVEMBER 2011

TIME: 4.30 P.M. – 6.30 P.M.

INSTRUCTIONS:

Answer **ALL** questions from Section A and **ONE** question from Section B. Within a section, all questions carry equal marks. Illustrate your answers with diagrams and give examples wherever appropriate.

SECTION A: (40 MARKS)

Answer ALL questions

1. Explain the main features of Lamarck's theory of evolution.
2. Describe the components of reproductive fitness.
3. Compare genetic drift with natural selection.
4. Explain three types of natural selection.
5. Describe briefly co-evolution.
6. Describe any two types of speciation.
7. Describe briefly the role of mimicry
8. Briefly outline the primate sub-order Prosimians, with the provision of both extant and extinct representatives.

SECTION B: (30 MARKS)

Answer ONE question.

9.
 - a. Describe in detail how fossils are formed.
 - b. Discuss limitations of the fossil record.
10. Write an essay on the main sets of characters setting Cro-Magnon man apart from other primates.
