



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2008/2009

INSTITUTE OF OPEN LEARNING EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 414: TROPICAL BIODIVERSITY

DATE: Saturday 20th February 2010

TIME: 2.00 p.m – 4.00 p.m

INSTRUCTIONS

Answer ALL questions. (40 marks)

Section A

1. Describe the Most Viable population concept.
2. Explain briefly the Arrhenius principle.
3. Outline the threats to corals.
4. Describe the relationships between species survival and habitat fragmentation.
5. Distinguish between Evenness and Jaccard diversity indices.
6. Explain the methods for measuring local biodiversity.
7. Describe briefly the relationship between climate change and biodiversity.
8. Explain how salinity influences distribution of species.

Section B Answer any ONE Question (Each question carries 30 marks)

9. Give an account of the uses of animal biodiversity and their implications.
10. Discuss the theories of island biogeography and metapopulations outlining their implications to biodiversity conservation.