



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
OPEN, DISTANCE AND e-LEARNING
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE
SZL 414: TROPICAL BIODIVERSITY

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DATE: SATURDAY, 17TH DECEMBER 2011 **TIME: 11.00 A.M. – 1.00 P.M.**

INSTRUCTIONS

Answer ALL questions in Section A and any ONE question in Section B. Illustrate your answers and give examples where appropriate.

SECTION A: Answers ALL questions (40 marks)

1. Explain the following terms:
 - a) Species richness
 - b) Species abundance
 - c) Genetic diversity
 - d) Keystone species
 - e) Mega-biodiversity area
2. Explain how island community biodiversity differs from other large ecosystems.
3. Describe how one would determine the diversity index of a given habitat.
4. Outline the factors which have to tropical rain forest degradation.

5. Describe briefly the effects of global warming on biodiversity.
6. State the role of zoos and botanical garden in biodiversity conservation.
7. Describe the uses and value of biodiversity.
8. Distinguish between a *Game Reserve* and a *National Park*.

SECTION B: Answer any ONE question (30 marks)

9. Discuss the role of human activities in biodiversity changes.
10. Write an essay on Kenyan wetlands.