



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE**

SZL 101: INTRODUCTION TO ECOLOGY AND BIOANALYSIS

DATE: MONDAY 26TH MARCH 2012

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, all questions carry equal marks. Illustrate your answers with well-labeled diagrams wherever appropriate and give relevant examples.

SECTION A: ANSWER ALL QUESTIONS (40 MARKS)

1. Describe survivorship curves.
2. Explain the effects of increased pollution of Lake Naivasha on the lakes' biodiversity.
3. Discuss briefly the ecological values of Lake Nakuru wetland ecosystem
4. Distinguish between density dependent and density-independent factors.
5. Outline the possible distribution patterns of organisms in nature.
6. Explain the application of sampling route method in animal population estimates
7. Discuss briefly why global warming should be a cause of worry.
8. State the characteristics of ecology as a science