



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 412: APPLIED ECOLOGY

DATE: Thursday 2nd December, 2010

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS

Answer ALL questions in Section A and any ONE question in Section B.

SECTION A

Answer ALL questions.

- 1) Describe Gause's competitive exclusion principle.
- 2) Distinguish between the following ecological terms:
 - a) Biomes and ecosystems
 - b) Habitat and niche
- 3) Describe Island biogeography.
- 4) Explain reasons for higher abundance of organisms in the tropics compared to other regions.
- 5) Illustrate ways in which individuals in a population are arranged.
- 6) Outline the classification of communities.
- 7) Explain major impacts of global climate change on natural systems.
- 8) Outline the main categories of threats to organisms.

SECTION B

- 9) Discuss the major components of an organisms environment.
- 10) "If the current trend in population increase is not controlled, ecological systems may become extinct". Discuss this statement.

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