



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE AND BACHELOR OF EDUCATION

SZL 312: LIMNOLGY

DATE: Thursday 2nd December, 2010

TIME: 2.00 p.m. – 4.00 p.m.

INSTRUCTIONS

Answer ALL questions in Section A and any ONE question in Section B. Within each section, all questions carry equal marks. Illustrate your answers with well labeled diagrams wherever appropriate.

SECTION A – Answer ALL questions (40 marks).

1. Explain the unique characteristics of water.
2. Outline the differences between lotic and lentic ecosystems.
3. Describe briefly the characteristics of dimictic lakes.
4. Explain the River Continuum (RCC) concept.
5. Explain the role of riparian vegetation on the structure and functioning of streams.
6. Describe briefly the different types of invertebrate drift.
7. Describe the functional feeding group concept among benthic invertebrates.
8. Explain how to distinguish mayflies from stoneflies.

SECTION B – Answer any ONE question – (30 marks).

9. Write an essay on the origin of lakes and their classification based on conductivity.
10. Discuss the limnological characteristics of shallow African lakes.

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