



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE

SZL 312: LIMNOLOGY

DATE: Friday 2nd December, 2011

TIME: 4.30 p.m. – 6.30 p.m.

INSTRUCTIONS

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

Within a Section all questions carry equal marks.

Illustrate your answers with diagrams and give examples where appropriate.

SECTION A – Answer ALL questions (40 marks)

1. Discuss briefly the advantages of oxidation ponds in waste water treatment.
2. Distinguish between lentic and lotic ecosystems.
3. Distinguish between the rhithron and potamon zones of rivers.
4. Explain the consequences of the intense interactions between sediments and water in African shallow lakes.
5. Outline the characteristics of eutrophic lakes.
6. Discuss briefly the fauna and flora of temporary ponds.
7. Outline the roles of catchment vegetation on the hydrological cycle.
8. Explain the formation of seasonal cycles in thermostratification.

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

9. Write an essay on benthic macroinvertebrate community structure of low order streams.
10. Compare and contrast the postulates of the River Continuum Concept (RCC) and the Riverine Productivity Model.

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