



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (CONSERVATION BIOLOGY)

SCB 210: EVOLUTION AND CONSERVATION

DATE: Monday 2nd April 2012

TIME: 2.00p.m – 4.00p.m

INSTRUCTIONS

Answer all questions in Section A and any ONE in Section B. Answers in Section A should be concise, and must be written in the spaces provided on the question paper.

SECTION A: Short Answer Questions (5 marks each)

1. What are the five kingdoms of living organisms now recognised, and how do they differ?
2. What is the difference between “Darwinsism” and “Neodarwinism”?
3. What is interesting about *Spartina townsendii*?

4. What did we learn from the experiments of Stanley Miller?

5. What is the “biological species concept”?

6. Explain the principles of dendrochronology.

7. Why is it believed that *Homo sapiens* originated in Africa?

8. Explain the term “convergent evolution”.

SECTION B: Essays (Maximum marks per question: 30)

1. Explain what information can be obtained from the various kinds of fossils.
2. Write a defence against the criticism that breeding of animals and plants has not produced a new species.
3. How has plate tectonics contributed to evolution?