



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

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

SCB 101: ENERGY AND ENVIRONMENT

DATE: Monday 26th March, 2012

TIME: 11.00 - 1.00 p.m.

INSTRUCTIONS

Answer ALL Questions in Section A and ONE Question in Section B

Answer in Section A should be written in the spaces provided on the question paper.

SECTION A: Short Answer Question (5 Marks each)

Q.1) Define the following terms:

(a) Greenhouse gases

(b) Biodiversity

(c) Energy

(d) Gasification

(e) Biomass

Q.2) Explain the main principles of sustainability of renewable energy.

Q.3) Briefly explain global warming.

Q.4) List environmental effects of construction of hydro-electric power dams.

Q.5) Outline influence of government energy regulations in the exploitation of renewable energy in Kenya.

Q.6) “*Sun is the mother of all forms of energy*”. Discuss briefly.

Q.7) What are possible environmental effects of a nuclear power plant?

Q.8) Outline significance of renewable energy systems analysis.

SECTION B: ESSAY (30 marks)

Q.1) Renewable energy as the solution to environmental and economic problems in Kenya.

Q.2) Biomass energy

Q.3) Environmental impact of non-renewable energy.