



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

**FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
ENVIRONMENTAL STUDIES (ENVIRONMENTAL
EDUCATION)**

EED 100: PRINCIPLES OF ENVIRONMENTAL EDUCATION

DATE: Tuesday, 30th November, 2010

TIME: 10.00 a.m. – 12.00 p.m.

INSTRUCTIONS:

Answer **THREE** questions.

Question **ONE** is Compulsory.

1. a) Explain the importance of the following terms with regard to environmental education:
 - i) Awareness campaign
 - ii) Knowledge acquisition
 - iii) Attitude change
 - iv) Skills development
 - v) Stakeholder participation

(5 marks)
- b) Giving relevant examples in each case explain:-
 - i) The concept of nested systems
 - ii) The process of energy flow in an ecosystem
 - iii) How dynamic balance controls populations in ecosystems.

(15 marks)
- c) Explain the relevance of any five (5) guiding principles in environmental education.

(10 marks)

2.
 - a) Briefly discuss the major categories of environmental problems, their root causes, and explain what a sustainable environment is. (10 marks)
 - b) Describe two energy conservation methods and three alternative energy sources for a sustainable energy future. (10 marks)
3. Using labelled illustrations, describe the water and carbon cycles and explain how human actions affect them. (20 marks)
4. Describe the structure of the ozone layer and explain the causes and process of ozone depletion. (20 marks)
5. Citing examples, briefly explain how these institutions are engaged in environmental management:
 - i) A government organization or department.
 - ii) An academic and research institution.
 - iii) A waste management organization.
 - iv) An United Nations (UN) agency.(20 marks)