



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (ENVIROMENTAL EDUCATION)

EED 106: INTRODUCTION TO THE PHYSICAL ENVIRONMENT

DATE: TUESDAY 3RD APRIL 2012

TIME: 4.30 P.M- 6.30 P.M

INSTRUCTIONS

Answer question ONE and any other THREE

- Q1. a) As a student of environmental education, why do you think it is important to understand physical environmental? [2 marks]
- b) Briefly explain the following terms;
element, chemical bond. [2 marks]
- c) With examples, distinguish the following term;
Liquids, Gases and Solids [3 marks]
- d) Give four characteristics of a hazardous chemical [4 marks]
- e) Explain briefly with examples the chemical characteristics which make heavy metals highly toxic to living organisms. [3 marks]
- f) Distinguish the difference of the following laws as used in environmental studies; thermodynamics and Newton's Laws. [2 marks]
- g) Why do you think troposphere is at times referred to as Live Giver and Weather Breeder? [3 marks]
- h) Giving examples, explain briefly the following biodiversity indicators:
- i) Endemic species [1 mark]
 - ii) Keystone species [1 mark]
 - iii) Umbrella species [1 mark]
 - iv) Dominant species [1 mark]

- j) Explain briefly why “banning of ocean dumping alone might not stop ocean pollution” [2 marks]
- Q2. Using relevant examples, discuss how deforestation as an environmental issue relates with the dimensions of the environment. [15 marks]
- Q3. Discuss with relevant examples energy transfer within an ecosystem. [15 marks]
- Q4. Discuss the importance of biogeochemical cycles in an ecosystem. [15 marks]
- Q5. Using relevant examples, discuss how human activities have interfered with the natural ecosystem functions. [15 marks]