

**CHUKA**



**UNIVERSITY**

**COLLEGE**

**UNIVERSITY EXAMINATIONS**

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF  
MASTER OF SCIENCE (ENVIRONMENTAL SCIENCE)**

**ENSC 761: ENVIRONMENT AND DEVELOPMENT**

**STREAM: M.SC (ENSC) Y1S1**

**TIME: 3 HOURS**

**DAY/DATE: WEDNESDAY 13/12/2012**

**11.30 A.M – 2.30 P.M.**

**INSTRUCTIONS:**

**Answer all questions in Section A (20 marks) and only 2 questions in Section B (40 marks)**

**Section A: Answer All the Questions.**

1. With aid of clear examples, briefly discuss the following concepts as used in environment and development. [6 marks]
  - (a) Agenda 21
  - (b) Eco-development
  - (c) African Green Revolution
  - (d) Environment as an economic resource
  
2. State the essential requirements for sustainable development. [4 marks]
  
3. Highlight the key soil processes influencing the surface and ground water quality. [5 marks]
  
4. State five key interventions that could increase the carbon sequestration of land use systems. [5 marks]

## Section B: Answer only 2 Questions

5. Discuss the necessary policy and institutional interventions for efficient integration of life cycle thinking into the national agenda under the following subheadings. [20 marks]
- (i) Policy reforms
  - (ii) Capacity development
  - (iii) Governance
6. To adopt or not to adopt nuclear energy is a key development and environmental debate in the World today. Discuss the main arguments in support and against widespread adoption of nuclear energy in the world today. [20 marks]
7. Discuss the principles and control strategies of nutrient and pesticide losses to ground water. [20 marks]
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