

**CHUKA**



**UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
CHUKA /EMBU**

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND  
HOSPITALITY & TOURISM MANAGEMENT**

**ENSC 00100: INTRODUCTION TO ENVIRONMENTAL SCIENCE**

**STREAMS:**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 4/12/2017**

**8.30 A.M – 10.30 A.M**

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**INSTRUCTIONS:**

- **Attempt all questions in section A and any two in section B**
- **Do not write anything on the question paper**

**SECTION A(30MARKS)**

1. Explain briefly Allelopathy in plant and animals. [2marks]
2. Define the following terms: [5marks]
  - (i) Environment
  - (ii) Ecosystem
  - (iii) Sustainable management
  - (iv) Sustainable development
  - (v) Biodiversity
3. How do forest fires contribute to projected climate change? [3marks]
4. Briefly explain any two types of built environment. [2marks]
5. Argue for and against genetically modified organisms (GMOs) [4marks]

6. Distinguish the following terms as used in environmental science:
- (a) Renewable and non renewable resources. [4marks]
  - (b) Bioaccumulation and bio-magnification . [4marks]
7. Explain three types of natural hazards. [3marks]
8. Outline six importance of environmental education. [3marks]

**SECTION B (40 MARKS)**

9. Discuss global climate change and its impact on ecosystems as a man made phenomena and suggest measures to reverse the trend. [20marks]
10. (a) Discuss the importance of public participation in environmental management. [10marks]
- (b) Discuss the effects and impacts to environment of plastic carrier bags ban in Kenya. [10marks]
11. (a) Agriculture is one of the main causes of water pollution in Kenya. Discuss. [10marks]
- (b) Discuss the challenges facing Mau forest ecosystem in management and conservation of biodiversity. [10marks]
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