



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2013/2014**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE  
OF BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE WITH  
INFORMATION TECHNOLOGY**

**(MAIN CAMPUS)**

**NES 302: BIODIVERSITY AND CONSERVATION**

*Date: 2<sup>nd</sup> April, 2014*

*Time: 8.30 - 10.45am*

**INSTRUCTIONS:**

- Answer QUESTION ONE and any other TWO questions.



1. a) Explain FIVE reasons for conserving biodiversity in Kenya. [10 marks]  
b) With relevant examples, explain the FOUR main ecological problems of the Kenyan protected areas. [12 marks]  
c) Describe FOUR stochastic processes that make species vulnerable to extinction. [8 marks]
  2. Explain how the Convention on Biological Diversity has been domesticated in Kenya. [20 marks]
  3. Discuss the challenges faced in conservation of Lake Turkana environment. [20 marks]
  4. a) Describe FOUR methods that are used to identify areas of conservation priority. [12 marks]  
b) Explain FOUR factors that can reduce the genetically effective size below that of the observed census size. [8 marks]
  5. "Although it is widely accepted that protected areas are the single most important element in the preservation of animal species, the occurrence of a species in a protected area is no guarantee for long-term survival". Discuss. [20 marks]
  6. Examine FIVE ways of mitigating the effects of climate change on Biological diversity in Kenya. [20 marks]
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