



**MASENO UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2015/2016**

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF  
BACHELOR OF SCIENCE IN CLIMATE CHANGE AND DEVELOPMENT  
WITH INFORMATION TECHNOLOGY**

**MAIN CAMPUS**

**NCA 305: CLIMATE CHANGE IMPACT ASSESSMENTS**

Date: 13<sup>th</sup> January, 2016

Time: 2.30 - 4.30pm

---

**INSTRUCTIONS:**

- Answer question ONE and any other TWO questions.
- Sketch maps diagrams should be used whenever appropriate.



1. a) Describe the first step necessary when undertaking climate change impact assessment. [10marks]  
  
(b) Discuss methodological approaches to assessment of climate change impacts. [10 marks]  
  
(c) Explain four general methods which can be adopted in climate change assessments. [10 marks]
2. Discuss three types of analysis required for evaluating climate change impact assessment methods. [20 marks]
3. Discuss the key considerations in defining the scope of water resources assessments. [20 marks]
4. Discuss a general stepwise sequence that has been found useful in assessing the potential effects of climate change on agriculture. [20 marks]
5. (a) Examine important climate change impacts in the biodiversity sector. [8 marks]  
  
(b) Explain strategies for conducting an integrated climate change impact assessment on biodiversity. [12 marks]
6. (a) Discuss the sequence of initial steps in a comprehensive health impact assessment. [10 marks]  
  
(b) Discuss the following climate change impact assessments.
  - I. Public health infrastructure damage [5 marks]
  - II. Water-related diseases [5marks]