



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE
OF BACHELOR OF SCIENCE IN CLIMATE CHANGE WITH
INFORMATION TECHNOLOGY
(MAIN CAMPUS)**

**NCA 304: CLIMATE CHANGE AND SUSTAINABLE
DEVELOPMENT**

Date: 2nd April, 2014

Time: 11.15am - 1.30pm

INSTRUCTIONS:

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



NCA 304: CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT

1. A) Define sustainable development as given by the Brundtland Commission (1987), pointing out what the concept of sustainable development encompasses in broad terms.

[10 mks]

b) Examine the requirements for the pursuit of sustainable development as identified by the World Commission on Environment and Development, showing their effect on climate change.

[10 mks]

a) Discuss the objectives of the National Climate Change Strategy as a planned strategic response to climate change in Kenya

[10 mks]

2. The former United Nations Secretary General's statement during the Millennium Summit indicated that HIV/AIDS pandemic threatens the lives of millions in Africa. What is the effect of HIV/AIDS on sustainable development and climate change in Kenya?

[20 mks]

3. Suppose you have been contracted by the government as a chief consultant; given your expertise in climate change and sustainable development:

Identify F OUR most vulnerable sectors and advise the government on adaptation and mitigation interventions that should be put in place so as to tread on the path to sustainable development.

[20 mks]

4. 'Development is the best form of contraception'. Using a suitable illustration, show how population, development and climate change are interdependent concerns

[20 mks]

5. Discuss the operational principles for the sustainable utilization of the natural capital stock and indicate how they can contribute towards combating the problem of climate change.

[20 mks]

6. 'In an attempt to implement Agenda 21 and work towards sustainable development the African governments are faced with challenges and deficiencies in the management of fresh water resources'. Discuss these challenges and deficiencies.

(20 mks)