



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE (CLIMATE CHANGE &
DEVELOPMENT) WITH INFORMATION TECHNOLOGY
(MAIN CAMPUS)**

NCA 206: CLIMATE CHANGE AND WATER RESOURCES

Date: 24th March, 2014

Time 2.45 – 5.00 p.m.

INSTRUCTIONS:

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



NCA 206 : Climate change and Water resources

1. a) Discuss the water related climate change coping strategies put in place by the following groups in Kenya:
 - i. Pastoralists (5marks)
 - ii. Farmers (5marks)
- b) Examine the impacts of hydrological changes on climate.(10marks)
- c) Explain the challenges scientists encounter in projecting climate change factors related to water? (10 marks)
2. Explain the salient features that point to climate changes related to water in Africa? (20 marks)
3. a) Examine the effects of global climate change on the water resources. (10 Marks)
- b) Account for the observed global pattern of water related climate change phenomena. (10 marks)
4. Examine the strategies necessary to reduce vulnerability to climate change driven water scarcity in Kenya. (20 marks)
5. Examine the water related impacts of climate change on settlement and infrastructure. (20 Marks)
6. a) Discuss challenges posed by climate change in water resources management in Arid and Semi-arid regions for the 21st Century. (10marks)
- b) Evaluate the impacts of climate change on the balance between water demand and its availability (10 marks)