

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2016/2017

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

MAIN CAMPUS

NCA 204: CLIMATE CHANGE IN TEMPERATE REGIONS

Date: 5th December, 2016

Time: 12.00 - 3.00pm

INSTRUCTIONS:

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

- 1 a) Outline the typical characteristics of temperate regions (6marks)
- Explain the anthropogenic causes of climate change in the temperate regions
 (12 marks)
- e) Briefly, explain how global climate change will impact on food security in the temperate regions (6 marks)
- d) Write short notes on the "adaptation of the vegetation to the harsh conditions of the arctic tundra" (6 marks)
- a) Explain the factors influencing the health outcomes of climate change in temperate regions
 (12 marks)
 - Explain how institutional capacity can be used as a resilience tool in addressing climate change impacts in temperate regions (8 marks)
- Discuss the coping strategies that can be put in place to adapt to extreme temperatures in temperate regions (20 marks)
- Explain why developed countries have a higher adaptive capacity to impacts of climate change compared to developed countries (20 marks)
- 5. a) Explain the meaning of the carbon footprint (4 marks)
 - b) Discuss personal initiatives that people living in the temperate regions can put in place to reduce the carbon footprint (16 marks)
- Discuss the biophysical response of agricultural crops to climate change in temperate regions (20 marks)