



MASEÑO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE IN CLIMATE CHANGE
AND DEVELOPMENT WITH INFORMATION TECHNOLOGY
(MAIN CAMPUS)

NCA 204: CLIMATE CHANGE IN TEMPERATE REGIONS

Date: 27th November, 2013

Time: 11.00 a.m. - 1.00 p.m.

INSTRUCTIONS:

- **Answer Question ONE (COMPULSORY) and any other TWO questions.**
- **Illustrations should be used where appropriate.**

NCA 204: CLIMATE CHANGE IN THE TEMPERATE REGIONGS

- 1a. Outline the typical characteristics of temperate regions. (6 marks)
- b. Briefly explain the following terms
- (i) Climate change mitigation. (4 marks)
 - (ii) Climate change adaptation. (4 marks)
- c. Elucidate the natural causes of climate change in temperate regions. (9 marks)
- d. Explain the different types of agricultural vulnerabilities to climate change in temperate regions (9 marks)
2. Explain the major vegetation types of temperate regions. (20 marks)
3. Explain the projected impacts of climate change on temperate forests. (20 marks)
4. "Responding to climate change is about making choices in the face of risk and opportunities." Discuss with specific reference to Temperate regions (20 marks)
5. Discuss the technological options for adaptation to the impacts of climate Change on agriculture in temperate regions. (20 marks)
6. "Stabilization of greenhouse gas concentrations in the atmosphere will play a pivotal role in climate change mitigation." Discuss. (20 marks)