



MASEÑO UNIVERSITY

UNIVERSITY EXAMINATIONS 2012/2013

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

NCA 209: CLIMATE CHANGE AND BIODIVERSITY

Date: 16th July, 2013

Time: 8.30 – 10.30 a.m.

INSTRUCTIONS:

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

NCA: 209 CLIMATE CHANGE AND BIODIVERSITY

1. a. Explain the **three** levels of biodiversity (8mks)
b. Explain any **five** pressures on biodiversity from human activities (8mks)
c. Explain **any six** projected impacts if climate change on biodiversity (10mks)
2. Discuss any **five** importance of biodiversity in Kenya (20 mks)
3. Discuss the observed changes in terrestrial and marine ecosystems associated with climate change (20mks)
4. Examine **five** projected impacts of climate change on ecosystems in coastal regions. (20mks)
- 5.) Write brief notes on:
 - a. Vulnerable species (3mks)
 - b. Climate mitigation with reference to biodiversity (3mks)
 - c. Ecosystem productivity (4 mks)
- ii) Examine any five effects of climate change on the livelihood of communities in the Terrestrial ecosystem. (10mks)
6. Examine the potential impacts of climate change mitigative measures on biodiversity. (10 mks)