



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF ARTS IN GEOGRAPHY AND NATURAL RESOURCES
MANAGEMENT WITH INFORMATION TECHNOLOGY**

MAIN CAMPUS

NCA 309: GREEN AND CLEAN ENERGY

Date: 13th January, 2016

Time: 2.30 - 4.30pm

- **Answer Question ONE and any other TWO Questions.**
- **Sketch maps and illustrations to be used whenever appropriate**

1. (a) Explain the origin of the term 'green energy' in climate change. [6 marks]
(b) Examine three reasons for adopting green energy in combating climate change. [12 marks]
(c) Describe the status and distribution of any FOUR main green energy sources in Kenya. [12 marks]
2. Discuss the main energy conservation practices for green energy utilized by most developing countries. [20 marks]
3. Discuss the main categories of barriers that will limit the development of green and clean energy. [20 marks]
4. (a) Explain the reasons why oceans waves' energy is largely unavailable within tropical countries. [8 marks]
(b) Examine the global status of tidal energy development. [12 marks]
5. (a) Explain the THREE factors that hamper solar energy exploitation in developing countries. [12 marks]
(b) Describe any TWO sites favorable for establishment of wind power schemes. [8 marks]
6. Examine the policy and institutional framework for green energy in Kenya. [20 marks]