



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**SECOND YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR SCIENCE IN EARTH SCIENCE WITH
INFORMATION TECHNOLOGY**

MAIN CAMPUS

NGA 211: PRINCIPLES OF GEOLOGY

Date: 20th April, 2016

Time: 11.00 - 1.00 pm

INSTRUCTIONS:

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



NGA 211: PRINCIPLES OF GEOLOGY

1. a) Write short notes on the following;
 - i) Exogenous processes (4 marks)
 - ii) Criteria to recognize unconformity (4 marks)
 - iii) Significance of geological maps (4 marks)
- b) Explain the term diastrophism and examine the importance of diastrophic processes (8 marks)
- c) Describe the characteristics of the various types of magma (10 marks)
2. a) Describe the characteristics of the different types of plate boundaries (12 marks)
- b) Describe activities related to exogenous processes (8 marks)
3. a) Explain the fundamental differences between Mercalli intensity and Richter scales (10 marks)
- b) Discuss the effects of faults on the outcrops in geological processes (10 marks)
4. a) Describe the three rock families and explain their differences (8 marks)
- b) Discuss the basis of classification of earthquakes (12 marks)
5. Describe the characteristics of the internal structure of the earth (20 marks)
6. Discuss the mode of formation and economic significance of sedimentary rocks in Kenya (20 marks)