

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

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

(MAIN CAMPUS)

NGA 101: INTRODUCTION TO EARTH SCIENCE SYSTEMS

Date: 19th November, 2013

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

INSTRUCTIONS:

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

NGA 101: INTRODUCTION TO EARTH SCIENCE SYSTEMS

1. a. Explain three major causes of continental movement.	(9 Marks)
b. Differentiate between the following	
i. Lithosphere and asthenosphere.	(4 marks)
ii. Biome and ecosystem.	(4 marks)
iii. Open structure communities and Rare species communities.	
	(4marks)
c. Write concise notes on the following:	
i. Temperate grassland ecosystem	(5 marks)
ii. Convergent tectonic boundary	(4 marks)
2. a. Describe various types of sedimentary rocks.	(10 marks)
b. Discuss the significance of the hydrological cycle in the earth sy	ystem. (10 marks)
3. a. Explain the concept of relative plate motion.	(8 marks)
b. Examine the main horizons in a soil profile.	(12 marks)
4. a. Account for the major global water resources storages.	(10 marks)
b. Examine the characteristics of mangrove forests.	(10marks)
5. a. Examine the physical characteristics of a mineral.	(8 marks)
b. Describe various layers of the atmosphere	(12 marks)
6. Discuss the main classification of fresh water organisms in an ecos	system. (20 marks)