

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF
BACHELOR OF SCIENCE IN NATURAL RESOURCES MANAGEMENT**

NARE 201: INTRODUCTION TO GEOLOGY

STREAMS: BSC (NARE) Y2S1

TIME: 2 HOURS

DAY/DATE: FRIDAY 19/12/2014

2.30 PM – 4.30 PM

INSTRUCTIONS:

Answer all questions in section A and two in section B, section A carries 30 marks and section B carries 40 marks

SECTION A (30 MARKS)

1. Briefly describe the origin of the earth. [4 marks]
2. Distinguish between the following Earth Science: Geology, Meteorology, Oceanography, Astronomy, and Hydrogeology. [5 marks]
3. Briefly distinguish between the following:
 - (i) Magma and lava
 - (ii) Intrusive igneous rock
 - (iii) Extrusive igneous rock[6 marks]
4. What are the names of the following igneous rocks after Metamorphism of high temperatures of about 650 degrees centigrade, Basalt, Sandstone, Limestone, Granite Shale. [5 marks]
5. Discuss the following words as used in study of sedimentary rocks:
 - (i) Detrital
 - (ii) Chemical
 - (iii) Terrestrial / continental
 - (iv) Marine sedimentary rocks[4 marks]
6. What do you understand by weather, climate variability and climate change? [6 marks]

SECTION B (40 MARKS)

7. With help of a well labeled sketch discuss the rock cycle. [20 marks]
8. (a) Briefly discuss the origin of ground water. [10 marks]
- (b) Briefly discuss Theory of Plate Tectonics. [10 marks]
9. (a) Describe the Typical, set of atmospheric and surface variables used in weather description. [8 marks]
- (b) Briefly discuss formation of Glacial and non-glacial surficial deposits. [12 marks]
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