

# UNIVERSITY OF NAIROBI

SECOND SEMESTER EXAMINATIONS 2014/2015  
SECOND YEAR EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE

CONTINUOUS ASSESSMENT TEST

SGL 202: SYSTEMATIC MINERALOGY

TUESDAY, 21<sup>ST</sup> JULY, 2015

TIME: 8.00 - 10.00 A.M.

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Answer ALL Questions. Illustrate your answers by means of carefully drawn sketches and diagrams.

## Question 1

Discuss the periodic table of elements and clearly indicate the character and nature of the most important elements in the most important rock forming mineral family. (25 Marks).

## Question 2

Discuss the sequential structural characterization of rock forming minerals, clearly also showing the temperature dependence of these minerals. (25 Marks).

## Question 3

Compare and contrast the mineralogical and related chemical composition, and structural and optical characteristics of monoclinic single and double chain rock forming minerals. (25 Marks).

## Question 4

Citing examples of different mineral groups, discuss polymorphism and isomorphism in rock forming minerals. (25 Marks).