



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

SECOND YEAR 1ST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE BIORESOURCE
MANAGEMENT AND CONSERVATION**

COURSE CODE: SBC 212

COURSE TITLE: INTRODUCTION TO SOIL SCIENCE

DATE: 1ST OCTOBER 2018

TIME: 8 – 10 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and ANY other TWO Questions.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

1. a) Define the following Soil science terms:
 - i) Soil from a Mining Engineer point of view (2 Marks)
 - ii) Soil texture (2 Marks)
 - iii) Polypedon (2 Marks)
 - iv) Petrogenesis (2 Marks)
 - v) Soil horizon (2 Marks)
 - b) Describe Hans Jenny Equation of Soil Formation (10 Mark)
 - d) Differentiate between Hue and Chroma Soil Colors (4 Marks)
 - e) Describe any THREE processes by which Sedimentary Rocks forms (6 Marks)
-
2. a) Describe how soil porosity can be altered (6 Marks)
 - b) Discuss the importance of soil colloids (14 Marks)
-
3. Describe the problems caused by soil pH in crop production (20 Marks)
-
4. a) Define Soil Pedon (2 Marks)
 - b) Differentiate between Top and Sub-soil (18 Marks)