

25



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR

THIRD YEAR 1ST SEMESTER
SPECIAL/SUPPLEMENTARY EXAMINATION

**FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE AND
BIOTECHNOLOGY & BACHELOR OF EDUCATION SCIENCE**

COURSE CODE: SAB 310

COURSE TITLE: SOIL MORPHOLOGY AND CLASSIFICATION

DATE: 5TH OCTOBER 2018

TIME: 11:30 – 1:30 AM

INSTRUCTIONS TO CANDIDATES

Answer Question 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) Differentiate between the following terms
 - i) Catena and Topography (2 Marks)
 - ii) Aridic and Xeric moisture regimes (2 Marks)
 - iii) Ochric and Umbric (2 Marks)
 - iv) Rodic and Chromic (2 Marks)
 - v) Acrisols and Lixisols (2 Marks)

- b) Describe the various weathering processes of rocks (12 Marks)

- c) Describe the soil moisture regimes (8 Marks)

2. a) How would you define soil to a climate change modeler (2 Marks)
- b) Briefly explain the various categories of soil horizons (18 Marks)

3. Vasily Vasil'evich Dokuchaev is commonly regarded as the father of pedology, describe his contribution in the field of soil pedology (20 Marks)

4. Briefly explain the USDA soil taxonomy classification system (20 Marks)