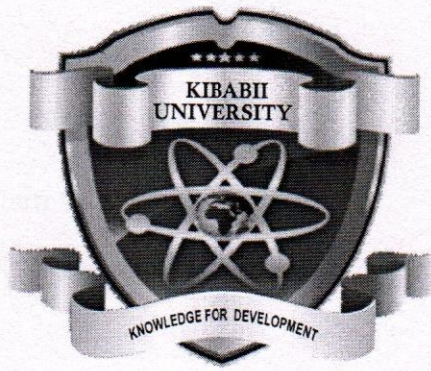


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(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2016/2017 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: 11TH SEPT. 2016 **TIME: 8AM – 10 AM**

INSTRUCTIONS TO CANDIDATES

Answer all Questions in section A and any other two Questions in section B.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over 

KIBU observes ZERO tolerance to examination cheating

SECTION A = 30 MARKS

1. a) Define the following terms:

- i) Soil from a Pedologist point (2 Marks)
- ii) Soil texture (2 Marks)
- iii) Soil structure (2 Marks)
- iv) Soil profile (2 Marks)
- v) Soil horizon (2 Marks)

b) Describe the five factors that affect soil formation (10 Mark)

d) Differentiate between Acidic and Basic rocks (4 Marks)

e) Explain the various types of weathering (4 Marks)

f) Identify any four rocks important in soil formation (2 Marks)

SECTION B = 40 MARKS

2. a) Describe how weathering controls soil erosion processes (5 marks)

b) Describe various forms of soil erosion (12 Marks)

c) Describe the diagnostic features of the following soil types

i) Vertisols (1 Mark)

ii) Technosols (1 Mark)

iii) Nitisols (1 Mark)

3. a) Describe the importance of soil (8 Marks)

b) Draw and describe the various types of soil structure (8 Marks)

c) Write short notes on chemical weathering (4 Marks)

4. a) Discuss the importance of soil organic matter (15 Marks)

b) Describe the soil temperature regimes (5 Marks)