



(Knowledge for Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2020/2021 ACADEMIC YEAR

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE EDUCATION AND EXTENSION & BACHELOR OF EDUCATION SCIENCE

COURSE CODE:

ASS 223/SAB 310

COURSE TITLE:

SOIL MORPHOLOGY AND CLASSIFICATION

DATE: 20TH JANUARY 2022

TIME: 8 - 10 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) Diffentiate between the following terms		
	i)	Ferraltilization and Calcification pedogenic processes.	(2 Marks)
	ii)	Petrogenesis and Petrography	(2 Marks)
	iii)	Eutric and Mollic Epipedons	(2 Marks)
	iv)	Plinthic and Stagnic Level 2 Soil elements	(2 Marks)
	v)	Histosols and Gypsisols soil types	(2 Marks)
	b) Using equations, describe the various Endogenic processes involved i formation.		Soil (12 Marks)
	c) Des	scribe any four soil temperature regimes.	(8 Marks)
2.	a) Hov	(4 Marks)	
	b) Bri	efly explain the importance of soil mapping	(8 Marks)
	c) Des	scribe the various categories of soil surveys.	(8 Marks)
3.	Hans Equat	Jenny Equation is commonly used with regard to soil formation. Brition.	iefly explain the (20 Marks)
4.	Discu	ss the igneous rocks based on:	
		(a) Mode of occurrence.	(10 Marks)
		(b) Chemical composition.	(10 Marks)
5.	Descr	ribe the various approaches to Soil classification.	(20 Marks)