



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES  
**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN  
SOIL SCIENCE, AGRICULTURAL EXTENSION AND EDUCATION (AGED) 2<sup>nd</sup> YEAR,  
1<sup>st</sup> SEMESTER**  
**2023/202 ACADEMIC YEAR**

**SIAYA CAMPUS**

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**COURSE CODE: APB 1205**

**STREAM: BSC. SOIL SCIENCE, AGED**

**COURSE TITLE: SOIL SURVEY CLASSIFICATION AND LAND EVALUATION**

**Date:** \_\_\_\_\_

**Instructions:**

**Answer Question 1 and ANY other TWO questions.**

**Answers to Questions must be written in the Answer Booklets**

1. Candidates must hand in their answer booklets to the invigilator while in the examination room.

**QUESTION 1**

(a) Define the following terms:

(10 marks)

- i). Pedology
- ii). Pedon
- iii). Ped
- iv). Pedogenesis
- v). Soil classification

(b) List the levels of the hierarchy of categories in the soil taxonomy (6 marks)

(c) What are the main objectives of soil survey (6 marks)

(d) What are some of the fundamental problems that keep soil survey from better achieving its objectives? (8 marks)

#### **QUESTION 2**

(a) Discuss any ten of the twelve orders of the USD system of soil classification (20 marks)

#### **QUESTION 3**

(a) Discuss the principles that are fundamental to the approach and methods employed in land evaluation (20 marks).

#### **QUESTION 4**

(a) Discuss the main 'actors' in the land evaluation process (20 marks)

#### **QUESTION 5**

(a) Discuss organisms as a factor of soil formation (20 marks)