

EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2010/2011

AC 1101: INTRODUCTORY SOIL SCIENCE

PRACTICAL EXAMINATION

March/April 2010



**Answer all questions**

This paper should be answered in English

**Time: Three hours**

**Section I**

1. Identify the given minerals from **A** to **J** and give the distinguishing characteristics of each of them.

**A    B    C    D    E    F    G    H    I    J**

2. Identify the given rocks from **K** to **T**. List out the minerals present in them and their type and formation.

**K    L    M    N    O    P    Q    R    S    T**

3. Identify the given rocks from **U** to **Y**. List out the minerals present in them, their groups and location in Sri Lanka.

**U    V    W    X    Y**

## Section II

4. a. Identify the soil groups from **p** to **t** and their locations.

b. Give the description of the following subordinate horizons

i. Oa

ii. Bt

iii. Be

c. Characterize the following land capability subclasses

i. IIe

ii. IIw

iii. IIc

5. a. a. Identify the specimen X, Y and Z.

b. Briefly describe the process of the formation of Y.

c. Differentiate colour and streak. Give the colour and streak for the following minerals

i. Olivine

ii. Hematite

iii. Talc