

25 APR 2015

EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2012/2013

JAN/FEB-2015

AC 1101: INTRODUCTORY SOIL SCIENCE

PRACTICAL EXAMINATION

Time: Two hours

Answer all questions

This paper should be answered in English

Section I

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

A B C D E F G H

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

I J K L M N O P

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

Q R S T

Section II

4.
 - a. Identify the soil groups from **p** to **t** and Suggest at least two suitable crops for each soil groups.
 - b. List out the properties of the soil groups **q** and **s**.
 - c. Give the land capability classes that are suitable for crop production.

5.
 - a. Is color a reliable physical property to help identify a given mineral specimen? Explain your answer.
 - b. Describe Streak, transparent, translucent, and magnetism with suitable example.
 - c. Identify the uses of following minerals
 - i. Hematite
 - ii. Graphite
 - iii. Halite
 - iv. Calcite
 - v. Feldspar