

EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2002/2003 (June/ July 2003)

ACH 1101 PRINCIPLES OF SOIL SCIENCE

Answer all questions

Time: 2 hours

This paper should be answered in English

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1. a) Describe briefly the characteristic features of the Podzolization process.
b) What are the characteristic features of minerals having Rhombohedral cleavage.
c) Describe the important characteristics of the Vijayan series rocks in Sri Lanka.

 2. a) Draw a typical soil profile and characterize the horizons.
b) Write a brief account on the "New comprehensive system of soil classification".

 3. a) Write an account on aerial photography in soil studies.
b) List the major soil groups in the dry zone of Sri Lanka and describe the properties of Red Yellow Latosols and Reddish Brown Earth and briefly discuss their agricultural potential.

 4. Write short notes on the following:
 - a) Land capability classification.
 - b) Role of biotic factors in soil genesis.
 - c) Thermal metamorphism of rocks.
