

EASTERN UNIVERSITY, SRILANKA

FIRST YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2000/2001

ACH 1101 – PRINCIPLES OF SOIL SCIENCE LIBRARY

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08 AUG 2001
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Eastern University, Sri Lanka.

Answer all questions
This paper should be answered in English
Time : 3 hours

1. a) Classify the minerals on the basis of their structure.
b) What are the characteristic features of triclinic crystals?
c) Briefly describe the highland series of rocks in Sri Lanka.
2. a) Discuss the role of physical factors in rock weathering.
b) Explain the formation of 'Mottling appearance' in soils.
3. a) Discuss the effect of parent material on soil formation.
b) Briefly explain the formation of saline soils.
4. a) Characterize the horizons of an ideal soil profile with a suitable diagram.
b) Describe the properties of Red-Yellow Latosols and discuss its agricultural potentials.
5. Differentiate the followings:
 - a) Podsolization and Laterization.
 - b) Calcareous rocks and Carbonaceous rocks.
 - c) Zonal and Azonal soils.
6. Write Notes on the followings.
 - a) Aerial photography and its uses in soil studies.
 - b) New comprehensive system of soil classification.
