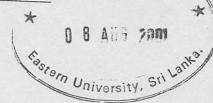
## EASTERN UNIVERSITY, SRILANKA

## FIRST YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2000/2001



## ACH 1101 - PRINCIPLES OF SOIL SCIENCE

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) Calcarious 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.