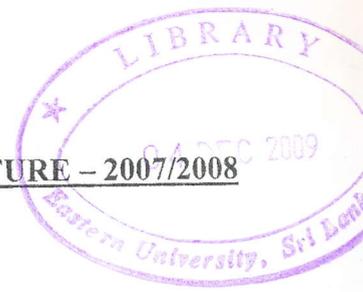


**EASTERN UNIVERSITY, SRI LANKA**

**FIRST YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2007/2008**

**ACH 1101 – Principles of Soil Science (3:30/30)**

**External Degree**



Time: 2 Hours

Answer All the Questions

---

1. a) Draw an ideal soil profile and characterize the horizons.  
b) Briefly describe the climatic factors in soil formation.
2. a) Compare and Contrast the following:
  - i. Detailed soil survey and Reconnaissance soil survey.
  - ii. Intrusive rocks and Extrusive rocks.b) Classify the sedimentary rocks based on the particle size distribution.
3. a) Briefly discuss the fertility characteristics of Non-Calcic Brown soils in the dry zone of Sri Lanka .  
b) Write an account on the importance of aerial photography in soil studies.
4. Write short notes on the followings:
  - a) Mineral fracture.
  - b) Soil orders.
  - c) Biological weathering of rocks.

\*\*\*\*\*