

EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2004/2005

ACH 1101 – PRINCIPLES OF SOIL SCIENCE (3:30/30)

Time allowed: 2 hours

Answer all questions.

This paper should be answered in English.

1. Discuss:

- a) Role of passive factors in soil genesis.
- b) Process of soil horizon differentiation.

2. Compare and contrast:

- a) Hydration and Hydrolysis in chemical weathering of rocks.
- b) Geo thermal and Contact thermal metamorphism.
- c) Inceptisols and Ultisols.

3. a) Write a brief account on the soil pedogenic process takes place in a water logging area.

b) List the major soil groups found in the dry zone of Sri Lanka and describe the characteristics features of the Non Calcic Brown Soils.

4. Write Short notes on following:

- a) Types of soil survey.
- b) Mineral Cleavage.
- c) Land use and planning
