



EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2007/2008

ACH 3101- APPLIED SOIL CHEMISTRY (3:30/30)- (Repeat)

Time- 02 hours

Answer all questions

- 1) a) What causes clays to have negative charges?
b) How does the cation exchange capacity affects the nutrient availability to plants.

- 2) a) Soil acidification is a major degradation problem. Describe the key process involved in soil acidification and the effects of acidification on soil properties.
b) Compare and contrast the physical and chemical properties of Smectite and kaolinite clays.

- 3) a) Explain the effect of oxidation-reduction reactions in submerged soils.
b) Classify the salt affected soils and list out the management practices for reclamation.

- 4) Write short notes on the following
 - a) Significance of C:N ratio in soil fertility.
 - b) Ways to minimize the soil pollution.
 - c) Buffering action in soil.
