



EASTERN UNIVERSITY, SRI LANKA
THIRD YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE 2003/2004
ACH 3101 APPLIED SOIL CHEMISTRY

Answer all questions

Time: 02 hours

1. a. Briefly explain how “Humus” is formed and differentiate the characteristic features of organic soil colloid and inorganic silicate clay mineral
- b. Explain the impact of isomorphous substitution in silicate clay mineral.
2. a. “Cation exchange is an important property in determining soil productivity, however that can vary with different soil types” Explain this statement
- b. Briefly discuss the factors to be considered when a soil having pH of 4.2 is reclaimed.
3. Classify the problematic soils based on their chemical characteristics and give the reclamation practices to those commonly occur in Eastern part of Sri Lanka.
4. Explain the followings
 - a. Effect of Acid rain in soils
 - b. Fate of pesticides in soils