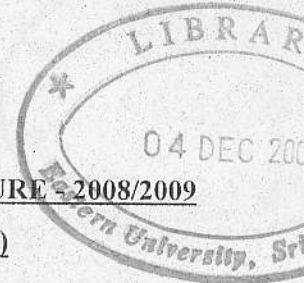


EASTERN UNIVERSITY, SRI LANKA

THIRD YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2008/2009

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



Time- 02 hours

Answer all questions

- 1) a. Explain the humus formation process and state the importance of humus on soil fertility.
b. Discuss the factors influencing cation exchange capacity of soil.
- 2) a. Write an account on effect of submergence on nutrient availability.
b. How does the C: N ratio of a decomposing organic substrate relate to available nitrogen in soil.
- 3) a. Compare and contrast the physical and chemical properties of Vermiculite and Kaolinite clays.
b. Explain the characteristics used to classify the salt affected soils.
- 4) Write short notes on the followings.
 - a. Pesticide pollution.
 - b. Formation of acid sulphate soil.
 - c. Isomorphous substitution in silicate clays.