EASTERN UNIVERSITY, SRI LANKA

SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2012/2013 AC 2101: PROPERTIES AND APPRAISAL OF SOIL (Mar/Apr 2015)

Time: 2 hours

Answer all questions

- Q1) a. Illustrate the different types of soil structure. (50 marks)
 - b. Explain the major groups of soil organism and its functions in soil. (50 marks)
- Q2) a. Write an account on soil water movement and factors influencing water retention. (40 marks)
 - b. i. Classify crystalline clays with examples. (30 marks)
 - ii. Explain the sources of negative charge on silicate clays. (30 marks)
- Q3) a. "Soil pH is very stable in the soils of high buffering capacity." Comment on the statement. And explain the factors affecting soil buffering capacity. (60 marks)
 - b. Indicate the importance of soil cation exchange on Agriculture and Environmental quality.

(40 marks)

- Q4) Write Short notes on the followings
 - a. Factors affecting soil temperature. (30 marks)
 - b. Properties of layer silicate clays. (30 marks)
 - c. Soil Permeability. (40 marks)