EASTERN UNIVERSITY SRILANKA

Third Year First Semester Examination in Agriculture –2010/2011 ACH 3101 – Soil Fertility and Plant Nutrition (2:20/20)

(Aug/Sept - 2014) - Repeat

ime – Two hours nswer All Questions.

- 1. a Explain the fate of NH₄⁺ in soil.
 - b. Explain about active and passive transportation of ions in plant root system.
- 2. a. Discuss the beneficial and harmful effects of soil microorganism in the soil
 - b. Briefly explain about broad casting and side band application of solid fertilizers in soil.

. Write short notes on the following;

- a. Movement of nutrients from soil to plant roots.
- b. Nitrification in soil.
- c. Impact of C:N ratio on nitrogen availability in soils.
- 4. a. Briefly discuss the slow releasing fertilizers and its importance in soil fertility management.
 - b. Write an account on the impact of pH on phosphorus availability.
