

EASTERN UNIVERSITY SRILANKA
Third Year First Semester Examination in Agriculture –2011/2012
ACH 3101 – Soil Fertility and Plant Nutrition (3:30/30)
Repeat

Time – Two hours

Answer All Questions.

1. a. Discuss the beneficial and harmful effects of soil microorganism in the soil.
b. Explain about active and passive transportation of ions in plant root system.
2. a. Write an account on the impact of pH on phosphorus availability.
b. Explain the fate of NH_4^+ in soil.
3. a. Briefly discuss about nitrification.
b. Discuss about the impact of C:N ratio on nitrogen availability in soils.
4. Write short notes on the following;
 - a. Movement of nutrients from soil to plant roots.
 - b. Broad casting and side band application of solid fertilizers in soil.
 - c. Transformations of sulphur in soils.
