



**EASTERN UNIVERSITY SRILANKA**  
**Third Year First Semester Examination in Agriculture –2009/2010**  
**ACH 3101 – Soil Fertility and Plant Nutrition (3:30/30)**  
**(June /July – 2011)**

Time – Two hours

Answer All Questions.

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1. a. Explain the additions, transformations and losses of nitrogen in soil.
  
  
  
  
  
  
  
  
  
  
2. a. Discuss the beneficial and harmful effects of soil microorganism in the soil.  
b. Discuss the method of plant analysis and its importance in Agriculture.
  
  
  
  
  
  
  
  
  
  
3. a. Explain the general composition of soil organic matter and its decomposition.  
b. Discuss the effects of pesticide pollution in soil.
  
  
  
  
  
  
  
  
  
  
4. Write short notes on the following;
  - a. Nutrient movement in soil and its transportation types.
  - b. C : N ratio in soil
  - c. Broad casting and side band application of solid fertilizers in soil.

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