



**Uva Wellassa University**  
**BSc in Export Agriculture**  
**BSc in Tea Technology & Value Addition**  
**BSc in Palm & Latex Technology & Value Addition**



**End Semester Examination - February/March 2011**  
**Year II Semester I**

**Plant Nutrition & Soil Fertility Management**  
**(EAG 271-2) / (TEA 211-2) / (PLT 271-2)**

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NO



### Part III –Essay

#### Question 01

- I. Briefly discuss the significance of the C:N Ratio on composting. (10 marks)
- II. What are the problem soils & how they affect on the soil fertility? (10 marks)
- III. Briefly discuss the impact of soil pH on Nitrogen nutrition. (10 marks)

#### Question 02

- I. Distinguish the essential & beneficial elements in plant nutrition. (10 marks)
- II. A 100g of soil has Ca - 0.04g, Mg - 0.12g, Na - 0.23g, K - 0.039g, H - 0.01g & Al - 0.09g. Calculate ,
  - a) Cation Exchange Capacity in meq/100g of the soil (15 marks)
  - b) Base Saturation Percentage of the soil (05 marks)

(Atomic weights of H, Na, Mg, Al, K, & Ca are respectively 1, 23, 24, 27, 39 & 40)