

EASTERN UNIVERSITY, SRI LANKA
FINAL YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE – 2012/2013
ACH – 4111 SOIL FERTILITY MANAGEMENT
Practical Examination (Mar –Apr-2015)

Answer all questions

Time: Two Hours

1. a. What are the factors to be considered in plant sampling?
b. Indicate the importance of plant sampling.
c. Give the Do's and Dont's in plant sampling

2. a. Discuss about the steps to be followed in taking soil sample for analysis.
b. Explain the term Quartering

3. A student wants to do a targeted yield Nitrogen recommendation for paddy in his area. He got some data's from his field trial. The average values obtained from several replicates is given below

	Average yield (qha⁻¹)	Average Plant N uptake (kgha⁻¹)	Average Soil Nitrogen (kgha⁻¹)
Control	20.95	37.02	168
Treated	38.60	73.21	265

If 50 kg ha⁻¹ Nitrogen was added calculate the followings:

- i. Nutrient requirement for nitrogen
- ii. Nitrogen contribution from soil
- iii. Nitrogen contribution from fertilizer