

- d. How much area can be covered with a 50-Kg bag of 26-5-10 at the rate of 1.0 Kg nitrogen per 1000 m<sup>2</sup>.
- e. You are treating a large sports turf complex and would like to determine how many Kg of a 16-8-8 fertilizer should be applied per ha if the recommendation calls for 0.75 Kg nitrogen per 1000 m<sup>2</sup>.
3. a. Discuss the benefits and disadvantages of manure (organic) fertilizers
- b. List down the uses of plant analysis
- c. How can you get soil sample to determine;
- Mobile nutrient content in soil
  - Immobile nutrient content in soil.
- d. Briefly discuss about the importance of sampling location in soil sampling.

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

**Answer all questions**

**Time: Two Hours**

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- 1.a. Indicate the steps to be followed to prepare a collected plant sample for nutrient analysis
- b. Briefly discuss about the diagnostic steps can be adopted to assess soil fertility
- c. You have collected soil from location A and B . And allowed the samples to dry at room temperature. Filled two glass jars half way with water, then placed a dry clod of soil from each sample into its jar. Stirred the water gently. Interpret the results based on the observations given bellow.

**Soil collected from A:**

Soil clods that hold together, that absorb water easily, and that emit air bubbles

**Soil collected from B:**

Soil that falls apart and gives off few air bubbles

2. a. List down the factors to be considered in fertilizer calculation
- b. You have a 50- Kg bag of 26-5-10 fertilizer that you want to apply to a lawn at a rate of 1.0 Kg nitrogen per 1000 m<sup>2</sup>. How much of the 26-5-10 fertilizer will you need to apply per 1000 m<sup>2</sup>?
- c. How many 50-Kg bags of 26-5-10 will you need to fertilize a 30,000 m<sup>2</sup> lawn at 1.0 Kg nitrogen per 1000 m<sup>2</sup>.

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