

Uganda Martyrs University

Faculty of Agriculture

B. Agriculture I, Semester 1 Final Assessment: 2014/2015

Course Unit: Soil Fertility and Plant Nutrition

Time: 9:30 am -12:30 pm

Date: Monday, 8th December, 2014

Instructions:

Answer any four questions

Do not write anything on a question paper

Time: Three hours

1. Discuss the effects of the following on soil productivity
 - a) Organic matter (10 marks)
 - b) Soil structure (5 marks)
 - c) Microorganisms (5 marks)
 - d) Plant and animals (5 marks)
2. Explain the causes of soil degradation and fertility decline in Uganda (25 marks)
3. a) Define organic manure. (5 marks)

b) What benefits can be reaped from organic manure application to the soil? (10 marks)

c) What are the limitations of using organic matters? (10 marks)
4. Discuss the factors that influence fertilizer use efficiency (25 marks)
5. Discuss the factors that causes of soil acidity (25 marks)
6. What are the important considerations in choosing the soil conservation measures to use (25 marks)
7. Explain the following:
 - a) Causes of soil acidity (10 marks)
 - b) Characteristics of good liming material (15 marks)