



The Open University of Sri Lanka
 Faculty of Engineering Technology
 Bachelor of Science in Industrial Studies Program
Final Examination- 2012/2013
AEI3235 Land and Soil Tillage Management

Date : 21.08.2013
 Time : 0930-1230
 Duration : Three (03) hours

SECTION 2: Answer any four (04) questions.

1. (a) Discuss the direct impacts of soil tillage on Agricultural lands.
 (b) Briefly explain that the creating of a hard pan is essential for growing certain crops.
 (c) Briefly explain the problems associated with plough

2. Discuss the factors that have great influence in land classification with suitable examples from Sri Lanka.

3. (a) What is meant by acid sulphate soils?
 (b) Briefly explain the agricultural impacts of acid sulphate soils.
 (c) Briefly explain how could you manage the /avoid the impact of acid sulphate soil.

4. Explain how could you assure optimum plant growth by minimizing adverse environment effects using best management practices(BMP's)

5. (a) What is meant by "Soil texture"?
 (b) Briefly explain the importance of the knowledge of the soil texture in plant growth.

6. Write short notes on any three(03) of the following,
 - a) Mechanization of transplanting
 - b) Conservation tillage
 - c) Soil nutrients and plant growth
 - d) Laser land levelling