



The Open University of Sri Lanka  
Faculty of Engineering Technology  
Bachelor of Science in Industrial Studies Program  
Final Examination- 2010/2011  
**AEI3235 Land and Soil Tillage Management**

**Date** : 30.03.2010  
**Time** : 1400-1700  
**Duration** : Three (03) hours

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**SECTION 2: Answer any four (04) questions.**

1. Write short notes on following topics.
  - a) Soil physical properties
  - b) Effects of soil salinity on plant growth
  - c) Problems of use of GPS surveying in Sri Lanka
  - d) "N" cycle
2. Describe consequences of lowering organic matter content of soil in relation to physical, chemical & biological condition of soil.
3. (a) What are the causes of soil compaction?  
(b) What are the methods available to identify the compacted soil and explain them briefly?
4. Discuss the different soil conservation practices that help to improve the agricultural productivity of a farm.
5. Briefly explain the different method of tillage to manipulate the soil to prepare seed beds.
6. Discuss the factors that have great influence on land classification with suitable examples from Sri Lanka.