



The Open University of Sri Lanka
Faculty of Engineering Technology
Diploma/Degree in Technology and Industrial Studies (Agriculture)
Final Examination- 2008/2009
AEX3232 Plant and Soil Science

00079

Date : 10/03/2010
Time : 0930-1230 hours

SECTION II Answer any four (04) questions

- (1) Briefly explain the importance of biological properties of soil on plant growth.
- (2) What are the factors influencing granular formation and development of soil structure and explain them briefly.
- (3) (a) How can you improve the soil aeration in the field?
(b) Explain the importance of soil temperature control on crop production
- (4) Discuss the Nitrogen Cycle in detail giving examples for each step.
- (5) Briefly explain the main growth phases of rice (*Oryza sativa*).
- (6) (a) What are the effects of poor drainage on crop production?
(b) Describe how acidity of soil can be controlled to have a good crop production.