



The Open University of Sri Lanka  
Faculty of Engineering Technology  
Final Examination- 2008/2009  
**Industrial Studies (Agriculture)**  
**AEX2130 Nature and environment**

Date : 11-03-2006  
Time : 0930 - 1230  
Duration : Two (02) hours

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Section 2 - Answer four (04) questions

- (1)
  - (a) What are the biotic components of Ecosystem?
  - (b) Briefly discuss the feeding relationships of these biotic components of the ecosystem.
  - (c) Explain "tropic levels on ecosystems"..
- (2)
  - (a) Discuss and compare the main sources of environmental pollutants in a city and a village.
  - (b) What are the remedial measures you can propose to reduce industrial pollution in Colombo area?
- (3)
  - (a) Discuss the difference between aerobic and anaerobic respiration.
  - (b) Briefly explain the effects of hormones on plants growth.
  - (c) Write a brief note on "asexual reproduction".
- (4)
  - (a) Explain the term photosynthesis.
  - (b) Briefly explain the condition required for photosynthesis.
  - (c) Name two major reactions taken place during photosynthesis.
- (5) **"Energy is one of the most important natural resources found on earth".**  
Discuss different energy resources available on earth and explain their availability in Sri Lankan context giving examples.
- (6) Write short notes on any three (03) of the following.
  - (a) Water pollution in Sri Lanka.
  - (b) Types of Ecosystems found in Sri Lanka.
  - (c) Hierarchical sequence of taxonomic groups.
  - (d) Green House effect.