



The Open University of Sri Lanka
Faculty of Engineering Technology
Bachelor of Industrial Studies (Agriculture) Programme
Final Examination- 2014
AEI 6234 Environmental control in farm structures

SECTION II

- Contains six questions.
 - Answer any **four (04)** questions.
 - You may spend **two (02)** hours
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1. Describe farmstead planning giving special attention to the importance of such plan and the factors to be considered in site selection.
2. Write an essay on building materials available in Sri Lanka for the construction of farm buildings and structures while explaining the relative advantages and disadvantages of the use of each material.
3. (i) Explain the **three (03)** ways of heat transfer.
(ii) Why knowledge on heat transfer is important in farm structures?
4. (i) Describe ventilation as one of the methods that can be used to control environment in farm buildings.
(ii) Explain **four (04)** control regimes which determine the ideal ventilation rate of agricultural structures.
5. Write short essays on any **two (02)** of the following.
 - (i) Concentric zone planning.
 - (ii) Structural materials of green houses.
 - (iii) Need of insulation of farm buildings.
6. Write short notes on any three (03) of the following.
 - (i) Psychometric chart.
 - (ii) Condensation within walls.
 - (iii) Mechanical ventilation systems.
 - (iv) Environmental control in green houses.
 - (v) Measurement of environmental factors.