



The Open University of Sri Lanka
 Faculty of Engineering Technology
 Bachelor of Industrial Studies Honours (Agriculture) Programme
 Final Examination- 2016

AEX6234/AEI6234 Environmental Control in Farm Structures

Date: 26.11.2016
 Time: 9.30 a.m. – 12.30 p.m.
 Duration: Three (03) hours

SECTION 11

- Contains **six (06)** questions.
 - Answer any **four (04)** questions.
 - You may spend **two (02)** hours
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1. "Control environmental agriculture is a viable technology that can be used to attain self sufficiency in vegetable in Sri Lanka." Critically evaluate the statement.
2. i. Explain the importance of environmental control in animal husbandry.
 ii. Describe the measures that can be taken to control any **four (04)** environmental factors in diary cattle farming.
3. i. Explain the different ways of heat transfer.
 ii. Describe the importance of insulation of farm buildings.
4. i. Name widely used building materials for the construction of farm buildings in Sri Lanka.
 ii. Explain the factors to be considered in choosing building materials for a given construction.
 iii. Critically evaluate the suitability of any **two (02)** building materials listed above (i) for the construction of farm structures.
5. Write short essays on any **two (02)** of the following.
 - i. Effect of temperature and moisture on safe storage of grain.
 - ii. Methods of wood preservation.
 - iii. Farm waste management.

6. Write short notes on any **three (03)** of the following.

i. The functions of housing in farm animals.

ii. Building elements.

iii. Mechanical ventilation.

iv. Air pollution in animal farms.