

The Open University of Sri Lanka Faculty of Engineering Technology Industrial Studies Programme (Agriculture)

Final Examination- 2012/2013

AEI6234 Enviorenmental Control in Farm Structures

Date 21/08/2013

Time 0930-1230 hours

Duration : Three (03) hours

SECTION 2: Answer only Four (04) questions

1. Write an essay on site selection for farmstead development.

- 2. Discuss the systems of poultry management.
- 3. (i) Briefly explain the importance of commercial green houses in agriculture
 - (ii) Explain the effect of moisture and temperaturr on grain storage
 - (iii) Briefly explainthe following processes
 - (a) Composting
 - (b) Biogas production
- 4. (i) Briefly explain the ways of heat transfer
 - (ii) (a) Briefly explain the use of psychometric chart in controlling the environment in farm structures
 - (b) List the properties shown on a psychometric chart
 - (iii) Explain types of mechanical ventilation syasems
- 5. Write short notes on three of the following:
 - i. Evaporative cooling
 - ii. Silo designs and location
 - iii. Manure management
 - iv. Ventilation of farm structures by natural means
 - v. Deep litter system
- 6. (i) Explain the componants of an intensive swine management system
 - (ii) Diagrammatically describe the life cycle of a pig