



Study Programme : Bachelor of Industrial Studies Honours (Agriculture)
Name of the Examination : Final Examination
Course Code and Title : AGX6534/AEX6234 Environmental Control in Farm Structures
Academic Year : 2017/18
Date : 20th February 2019

Section 11

1. (i). "Planning is the first and most important step in designing a farmstead" Justify the statement.
(ii). Describe the factors to be considered in selecting a site for an agricultural farm.
2. (i). Define the following terms.
(a). Thermal conduction. (b). Thermal convection. (c). Thermal radiation.
(ii). Discuss the measures that can be taken to minimize heat transfer through a solid wall of a farm building with the help of theories that you are learnt on rate of conduction heat transfer.
3. (i). Describe the principle behind evaporative cooling.
(ii). Discuss the measures that can be taken to reduce the temperature inside a green house.
4. (i). Describe the importance of ventilation of farm structures.
(ii). Critically evaluate the different ventilation methods used in Sri Lanka.
5. Critically evaluate the suitability of any **four (04)** building material available for the construction of a poultry house in the dry zone of Sri Lanka.
6. Write short notes on any **two (02)** of following
 - (i). Effect of any **two (02)** environmental factors on safe storage of grain.
 - (ii). Condensation on surfaces and within walls.
 - (iii). Methods of wood preservation.

