

The Open University of Sri Lanka  
Faculty of Engineering Technology  
Department of Agricultural and Plantation Engineering



Study Programme : Bachelor of Industrial Studies Honours (Agriculture)  
Name of the Examination : Final Examination  
Course Code and Title : **AGX6534 Environmental Control in Farm Structures**  
Academic Year : 2021/2022  
Date : 15<sup>th</sup> February 2023

**Section 11**

1. Critically evaluate the suitability of control environmental agriculture (CEA) for the increase of fruits and vegetable production in Sri Lanka.
2. "Planning is the first and most important step in designing a farmstead" justify the statement giving examples.
3. Critically evaluate the suitability of following building materials for the construction of farm structures of rural poor farmers in the dry zone of Sri Lanka.
  - i. Thatch ii. Concrete iii. Corrugated iron sheet iv. Wooden poles v. clay bricks
4. Assume that you have been appointed as a consultant of an agricultural project under which a commercial scale cattle farm is to be established. As the consultant how do you make your subordinates aware on the factors to be considered when selection of a site for the project
5. List down the available ventilation methods that can be adopted in farm housing. Among them choose the system most suitable for a small scale cattle house in the dry zone Sri Lanka giving valid reasons.
6. Write short notes on any **two (02)** of following.
  - (i). Insulation of farm structures.
  - (ii). Farm waste management.
  - (iii). Factors effect on heat transfer through solid walls.

