

UGANDA MARTYRS UNIVERSITY
FACULTY OF AGRICULTURE

Bachelor of Science in Agriculture Year 2
Special/Supplementary Examination

Module AG-08/OA-10: Appropriate Agro-Mechanization
September 2015

Instructions:

- Read and understand the questions before answering
- Select and answer any **Four (4)** questions
- Start each answer on a separate answer sheet
- You are allowed **Three (3) hours** for the examination

1. Describe the objectives of tillage in agriculture.
2.
 - a. What are the disadvantages of drying crops on bare ground?
 - b. The crib is the cheapest structure for drying maize in the tropics:
 - i. Describe the crib and explain how it works.
 - ii. What are the major factors needed in construction in order to achieve fast and uniform drying in the crib?
3.
 - (a) Explain why the health and hygiene of the animals and the workers are Very important in milk processing.
 - (b) Describe milk pasteurization and homogenization.
4.
 - (a) What are the safety precautions that a farmer should follow while spraying and holding spraying equipment?
 - (b) Discuss the various precautions to be taken during routine maintenance of sprayers.
5.
 - (a) Which are the most common planting methods?
 - (b) Farmers in Nebbi District grow mainly millet, maize, sorghum, beans, groundnuts and cassava. Which of the above methods would you recommend for each of these crops and why?
6.
 - a) Outline the importance of having buildings on the farm.
 - b) Explain the importance of the components of a cattle dip
7.
 - a) Give reasons why it is necessary to process the agricultural products.
 - b) Outline the various activities involved in processing of agriculture produce.
8. Describe the functions of the main parts of cabinet solar drier, Give advantages of this type of solar drier.