

**UGANDA MARTYRS UNIVERSITY**  
**FACULTY OF AGRICULTURE**

Examinations 2013-2014  
Bachelor of Science in Agriculture Year 2  
**Exam: Sustainable Commercial Crops Production**  
Time: 10:00am – 01:00pm (3 Hrs)  
Date: 03<sup>rd</sup> July 2014

**Instructions:**

- i. Attempt any four questions
- ii. Write clearly, number the questions appropriately on the answer booklet
- iii. Read and understand the instructions on the last page of the answer booklet
- iv. Do not write anything on a question paper

1. Explain the Principles of crop production and briefly discuss how each one of them is important in commercial crop productions (**25 marks**)
2. a) Discuss the main elements in "Sustainability" with a focus on commercializing crop production. (**9marks**)  
b) Explain the main challenges to achieving sustainable commercial crop production in Africa (**16 marks**)
3. a) What do you understand by the term farm Labor as used in commercial crop production? (**5marks**)  
b) Discuss the most common challenges of managing farm labor in relation to sustainable crop production. Suggest means of minimizing the challenges (**20marks**)
4. a) Explain the term Value addition as used in commercial crop production (**5marks**)  
b) With regard to a traditional African farmer, discuss the process, challenges of value addition. (**10 marks**)  
c) Identify 5 fundamental strategies that the African governments can undertake to improve value of crop products (**5 marks**)
5. Compare and contrast manual and mechanization methods of Land preparation management to ensure sustainable crop production (**25 marks**)
6. Crop pests and crop diseases are one of the most limiting factors in commercial crop production.  
a) Explain the concept of crop pests and crop diseases management as used in commercial production of crops (**8marks**)  
b) Discuss how pests and diseases are affecting sustainability in production of commercial crops. (**10 marks**)  
c) Explain how those challenges can be minimized through Principles of Pest and diseases management (**7 marks**)
7. a) Differentiate between Soil productivity and soil fertility (**4 marks**)  
b) Discuss the common constraints in managing soil fertility in Africa and how those challenges can be overcome (**16 marks**)  
c) How can values of clean environment and increasing production be achieved without conflicting while pursuing commercial crop production (**5 marks**)