

Uganda Martyrs University

Faculty of Agriculture

Final Examination 2021-2022

Bachelors of Science in Agriculture Year Two
Bachelors of Science in Ecological Organic Agriculture Year Two

Module: BSAG 2110/BSEOA 2112: Ecological Organic Agriculture

Time: 09:30 am – 12:30 pm

Date: Wednesday 03rd August 2022

Instructions:

- i. Attempt **FOUR Questions**
 - ii. Each question is 25 marks
 - iii. *Do not write anything on the question paper*
 - iv. *Time: Three hours*
-

1. Write short notes on the following organic agriculture concepts
 - a) Biodiversity (**5 marks**)
 - b) Biological cycles (**7 marks**)
 - c) Soil biological activity (**7 marks**)
 - d) Ecological harmony (**6 marks**)
2. Describe the process of composting materials on the farm (**15marks**)
Explain Why organic matter is important in ecological organic agriculture production (**10 marks**)
3. What are organic standards, and what is the difference between product system standards and product standards. (**25 marks**)
4. Explain the importance of the components of the internal control system in organic value chains (**25 marks**)
5. Organic agriculture in Uganda is a failure by design. Discuss (**25 marks**)

6. a) Explain why a clear understanding of the principles of organic agriculture (Ecology, health, care, fairness) is essential for ecosystem conservation in Uganda **(12 marks)**
b) Describe the practices that are commonly used in the application of organic agriculture principles. **(15 marks)**
7. Discuss in detail why inspection of the organic system is needed for organic certification **(25 marks)**
8. With examples explain how biodiversity differs with the following aspects
 - a) Spatial **(6 marks)**
 - b) Temporal **(6 marks)**
 - c) Natural fires/type of fire **(6 marks)**
 - d) Nutrient utilization base **(7 marks)**