

Uganda Martyrs University

Faculty of Agriculture and Environment

Masters of Science in Agro-ecology Year 1 2023 Intake

Final Assessment April, 2024

Module: MAE 4106 Agro-biodiversity and Ecosystems Conservation

Date: Saturday, 20th April, 2024

Time: 9:30am – 12:30pm

Instructions:

- **Attempt 4 questions**
- All QUESTIONS carry equal marks
- Begin each question on a fresh page.
- *Do not write on the Question paper*

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1. Can you think of any examples of adaptations strategies that animals have that allow them to thrive both on land and in the water? **(25marks)**
 2. Using relevant examples describe the environmental services that agrobiodiversity provides that are essential for sustainable agriculture **(25 marks)**
 3. How does Intensification of agricultural production threaten agrobiodiversity hot-spots. **(25 marks)**
 4. For any visible transition from the usual agricultural practices to conservation based approached to be seen, there must be trade offs. Describe these trade offs **(25 marks)**
 5. How do pastoral and Agro pastoral communities experience climate change; what are the local alternatives available to them? **(25 marks)**
 6. Describe the Water harvesting and soil moisture retention methods available for local farmers in hilly areas and how these are applied. **(25 marks)**
 7. Focusing on an Agro ecological zone of your choice, describe the Endangered species that require ex-situ, in-situ conservation. **(25 marks)**
 8. Describe the Direct and Indirect Agro forestry combinations suitable for Arid and semi arid environments **(25 marks)**