

Uganda Martyrs University

Faculty of Agriculture

Final Examination 2021-2022

Bachelors of Science in Agriculture Year Four

Bachelors of Science in Ecological Organic Agriculture Year Two

Module: BSAG 4227: Sustainable Land Utilization

BSEOA 2109: Sustainable Land Utilization Ecology

Time: 02:00pm – 05:00 pm

Date: Sunday 07th August 2022

Instructions:

- Answer any four questions.
 - Questions carry equal marks
 - Read and understand each question before you attempt it.
 - Do not write anything on the question paper
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Question 1

- a) In many countries today, people have cut down forests in order to have material for various purposes. With relevant examples, explain the consequences of this to management of land as a resource **(15 marks)**
- b) Explain sustainable land management practices that can address the issues arising from the activity done in (a) above **(10 marks)**

Question 2

- a) Explain the concept of habitat fragmentation **(5 marks)**
- b) Discuss with examples the causes and effects of habitat fragmentation **(10 Marks)**
- c) Suggest possible solutions to the habitat fragmentation **(10 Marks)**

Question 3

- a) Explain the services that are provided by the ecosystem, which justifies its conservation **(15 marks)**
- b) Discuss human activities responsible for the degradation of the productive value of the natural ecosystems **(10 Marks)**

Question 4

- a) Explain different approaches the government can take to reconcile land use conflicts between and among individuals and government agencies relating to present needs and anticipated demands for land **(10 marks)**
- b) Discuss how other land use and land cover changes have affected agriculture production **(15 marks)**

Question 5

- a) Explain the Importance of sustainable land management to preserve ecosystems and their services **(15 marks)**

- b) Discuss challenges farmers face in sustainable land management in your locality (**10 Marks**)

Question 6

- a) Discuss with examples why some forms of land use and are considered unsustainable (**10marks**)
- b) Explain different strategies for the implementation of sustainable land management practices in a range of environmental setting (**15 marks**)

Question 7

- a) Explain the ultimate consequences of the adverse effects of agriculture on the environment (**15 marks**)
- b) Suggest solutions that can be put in place to address the adverse effects of agriculture on the environment (**10 marks**)

Question 8

- a) What do you understand by the concept of sustainable land management? (**5 marks**)
- b) What are the socio-economics issues affecting sustainable land utilization in your area? (**10 Marks**)
- c) If you had to deal with an issue in an ecological or sustainable manner of sustainable land management, compose the key questions that would need to be addressed before proceeding to find a solution (**10 Marks**).