

Uganda Martyrs University

Faculty of Agriculture

Final Examination 2021-2022

BSAG1104 Sustainable Environmental Management
BSEOA1206 Agroecosystems biodiversity conservation

INSTRUCTIONS:

- a) Attempt **any 4** questions of your choice*
 - b) Any additional question (s) answered will not be marked.*
 - c) Rough work must be done in the answer booklet provided.*
 - d) Read other instructions on the answer booklet.*
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1. Ecosystems have variations in size, structure and functions; describe their functioning in the following categories;
 - a) Producers (8marks)
 - b) Consumers (9marks)
 - c) Decomposers (8marks)
2. In the face of long-term droughts, how would each of the following categories enhance their resilience;
 - a) Small holder farmers in Ssese islands **(8Marks)**
 - b) Pastoralists in Karamoja **(10marks)**
 - c) Schools in Hoima district **(7marks)**
3. What must be done by Natural resources officers to abate the;
 - a) Degradation of forests around Mount Elgon (12marks)
 - b) Rice growing wetlands in Paliisa District (13marks)
4. How can GIS support the monitoring watersheds in remote areas of Bwindi Forests (25marks)
5. As an Environmental Impact Assessment Officer Jinja City; what would you be the key variable for analysis before sanctioning a waste disposal project(25Marks)

6. Differentiate between *adaptation* and *mitigation* in regards to climate change among island communities (25 marks)
7. In reference to a city of your choice in East Africa, how are city communities adopting and experiencing climate changes? (25marks)
8. UMU is in a process of establishing a feed processing factory around the faculty of Agriculture, explain in brief the process that should be followed to conduct an Environmental Impact Assessment (25 marks)