

# Uganda Martyrs University

## Faculty of Agriculture

B. Agriculture I, Semester II Final Assessment: 2015/2016

**Course Unit: STA 1201 Sustainable Environment Management**

Time: 09:30 am – 12:30 pm

Date: Tuesday 03<sup>rd</sup> May 2016

**Instructions:**

- i. Answer question 1 and any other 3 questions
  - ii. Do not write anything on a question paper
  - iii. Time: Three hours
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1. Uganda Martyrs University has proposed to establish the African Center of Excellence in Agro ecology and food systems; the center shall change the face of Equator Valley Farm from a business model farm to a teaching and Research center, Many old buildings shall be demolished and new ones built, more Livestock shall be stocked at the farm, however before all this is done, it will require an Environmental Impact Assessment;
  - a) What are the scoping needs of this project? (10 Marks)
  - b) Explain the Impact Screening requirements of the same project? (15Marks)
2.
  - a) Define ecology and ecosystems (10Marks)
  - b) Discuss the biotic and abiotic components of the ecosystems? (15Marks)
3. Discuss the following terms;
  - a) Consumptive use value (8 marks)
  - b) Productive use value (5 marks)
  - c) Social value (5marks)
  - d) Option value (7marks)
4.
  - a) Discuss the major threats to biodiversity in Uganda (12Marks)

- b) Explain the major causes of human-wildlife conflicts, suggest the remedial steps that can curb the conflict (13marks)
- 5. a) What is the difference between renewable and non renewable resources (12Marks)
  - b) Discuss the major agriculture and the ecological uses of forest (13Marks)
- 6. a) Explain the major causes of soil pollution? (10Marks)
  - b) How does soil pollution affect soil productivity? (7Marks)
  - c) What measures can be taken to prevent the pollution of our production areas (8Marks)
- 7. a) Define With specific examples Green house gases (10Marks)
  - b) Discuss the potential and limitation of green house gases to global food production (15marks)
- 8. What are the cultural and social huddles embedded within our farming systems that we must jump to avoid the environmental tragedy expected from open access to key resources as (25Marks)