"Investing in Africa's Future"

COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

NANR 211: ENVIRONMENTAL SCIENCE AND POLLUTION

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2023

LECTURER: MS. M. C. KUREHWATIRA

DURATION: 3 HOURS

INSTRUCTIONS

Answer Question 1, Question 2, and any other TWO questions

Question 1

With the aid of a flow diagram, describe in detail the solid waste management process that was followed at the organisation where you were attached.   **[25 marks]**

Question 2

A water quality sample for a rural community has high levels of faecal coliform, mercury as well as lead. Assuming you are an Environmental management consultant for the community, you are required to;

a) Describe the potential sources of the pollutants.   **[10 marks]**
b) Describe the potential impacts of the pollutants to the community and aquatic life.
                                                                        [15 marks]

Question 3

a) In Africa, it is not the loss of ozone that is a problem but too much ozone. Discuss.
                                                                        [10 marks]
b) Discuss the causes and impacts of cultural eutrophication in Africa.   **[15 marks]**

Question 4

a) Studies have shown a temporary decline in air pollution during the COVID 19 induced lockdowns. Discuss the possible reasons for this reduction.   **[10 marks]**
b) Describe the wastewater treatment used at Africa University.   **[15 marks]**

Question 5

Discuss, giving examples, the impacts and potential solutions to the environmental pollution problems facing Africa.   **[25 marks]**

Question 6

a) With reference to the St. Joseph's bridge clean up event, discuss three possible causes of poor waste management in the community.   **[15 marks]**

b) Assuming you are the community leader, describe any two measures you would use to address poor waste management in the community.   **[10 marks]**