

"Investing in Africa's Future"

COLLEGE OF HEALTH AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

NANR 211: ENVIRONMENTAL SCIENCE AND POLLUTION

END OF SECOND SEMESTER EXAMINATIONS

APRIL/ MAY 2023

LECTURER: MS M. C. KUREHWATIRA

DURATION: 3 HRS

INSTRUCTIONS

Answer Question 1, Question 2 and any other TWO questions

Question 1

- 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) Describe any two potential solutions to poor waste management in this community.

[10

marks]

Question 2

- a) Discuss in detail, giving relevant examples, three reasons for controlling emission of primary air pollutants in Africa.
 [15 marks]
- b) Describe two potential strategies that may be used to reduce emission of primary air pollutants in Africa. [10 marks]

Question 3

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 4

Give a detailed analysis of the impacts of pollution in Africa.

[**25** marks]

Question 5

a) Discuss the importance of water quality assessment in Africa.

[10 marks]

- b) Discuss the possible consequences of global warming on:
 - a. Human health,

[5 marks]

b. Biodiversity and

[5 marks]

c. Food security.

[5 marks]

Question 6

Africa has the lowest total greenhouse gas emissions, however, the impacts of global warming are more severe in Africa. Discuss. [25 marks]