

WOMEN'S UNIVERSITY IN AFRICA



Addressing gender disparity and fostering equity in University Education

FACULTY OF AGRICULTURAL SCIENCES

DIPLOMA IN ENVIRONMENTAL MANAGEMENT

MAIN PAPER

DE: POLLUTION AND WASTE MANAGEMENT

INTAKE: FIRST YEAR SECOND SEMESTER

DATE: JANUARY 2021

TIME:

INSTRUCTIONS TO CANDIDATES

Answer any **four** questions.

Question 1

Explore the thermal methods of waste disposal giving applicability of each. [25]

Question 2

- a) Describe any three classes of pollution based on environmental component affected. [9]
- b) Discuss how the polluter pays principle has been used in pollution control in Zimbabwe. [16]

Question 3

- a) Describe the characteristics of hazardous wastes and discuss the challenges associated with their disposal. [10]
- b) Discuss the methods that can be used in treatment of hazardous wastes. [15]

Question 4

Compare composting and anaerobic digestion in the treatment of agricultural waste highlighting the applicability of each method.

Question 5

- a) Assess the factors to be considered in determining the appropriate waste collection system on the farm. [15]
- b) Compare batch and continuous systems in waste handling. [10]

Question 6

Discuss how economic incentives can be used to control air and water pollution. [25]