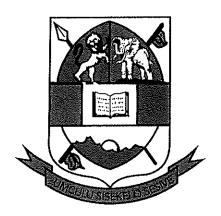
UNIVERSITY OF ESWATINI



Final Examination-2020/2021

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TITLE OF PAPER:

Environmental Pollution

COURSE NUMBER:

CHE613

TIME ALLOWED:

Three Hours

INSTRUCTIONS:

Answer any four (4) questions of the six (6) questions and every question holds 25 marks. NB: all questions are to be answered in a separate answer sheet.

This Examination Paper Contains THREE Printed Pages Including This Page

You are not supposed to open the paper until permission to do so has been granted by the Chief Invigilator.

Question 1

- a. Give a brief discussion about photochemical smog. Use equations to illustrate your answer. (15)
- **b.** How do VOCs contribute to increased ozone at ground level? (5)
- Use of lead-free petrol or diesel is recommended to reduce the pollutants emitted by automobiles. Explain why?

Question 2

- a. What are the advantages and disadvantages of using pesticides and fertilizers as far as the environment is concerned? (10)
- b. How does the Paris Agreement under the United Nations Framework on Climate Change Convention (UNFCCC) supposed to address climate change? (10)
- c. What is the role of population growth in the production of municipal solid waste (MSW). Give examples of the categories of waste found in MSW. (5)

Question 3

- a. Give a brief discussion about eutrophication (10)
- b. How has DDT caused decline in bird population? (10)
- Give a brief discussion of biomagnification. Use an example to illustrate your answer
 (5)

Question 4

- a. The use of fossil fuels in industries and vehicles results in the release of different gaseous air pollutants. Discuss four of these and highlight their effects (10)
- b. What could be the harmful effects of improper management of industrial and domestic solid waste in a city?

(10)

c. What are biodegradable and non-biodegradable pollutants? (5)

Question 5

a. What are the basic characteristics of a modern landfil site. List any three and also
 mention the reasons for their use. (15)

b.	Write a short note on electronic waste.	List the various sources of	of e-wastes and the
	problems associated with its disposal.	ů	(10)

Question 6

a.	How does deforestation contribute to climate change? Give a brief discussion	(10)
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b. Describe soil pollution and how it can be prevented. (15)