

"Investing in Africa's Future"

COLLEGE OF HEALTH AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

ANR 201: ENVIRONMENTAL SCIENCE AND POLLUTION

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER 2019

LECTURER: MS M. C. KUREHWATIRA

DURATION: 3 HRS

INSTRUCTIONS

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Question 1

a) Define the following:

i.	Cultural Eutrophication,	[2 marks]	
ii.	Pollution,		[2 marks]
iii.	Primary pollutant		[2 marks]
iv.	Water quality and		[2 marks]
V.	Green house effect.		[2 marks]

b) Describe the point sources and non-point sources of water pollution in Africa.

[15 marks]

Question 2

a) Describe the three categories into which water quality parameters can be placed, give three examples for each category. [9 marks]

b) Explain the importance of EC and BOD in determining water quality. [4 marks]

c) Describe any four primary pollutants and highlight their sources. [12 marks]

Question 3

a) In Africa, it is not the loss of ozone that is a problem but too much ozone. Discuss.

[5 marks]

b) Discuss the causes and impacts of cultural eutrophication.

[20 marks]

Question 4

a) Describe three (3) greenhouse gases in the atmosphere highlighting their sources.

[9 marks]

b) Discuss the importance of public awareness to environmental pollution. [15 marks]

Question 5

a) Discuss, giving examples, the potential solutions to the environmental pollution problems facing Africa.
[20 marks]

c) Mention the diseases associated with pollution.

[5 marks]

Question 6

a) Discuss the possible consequences of global warming on:

i. Human health, [5 marks]

ii. Biodiversity and [4 marks]

iii. Food security. [4 marks]

b) Describe the effects of Ultra violet radiation of humans and the ecosystem.

[12 marks]