

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR FOURTH YEAR SECOND SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT BACHELOR OF SCIENCE IN ENVIRONMENTAL STUDIES (BIOLOGY AND HEALTH)

COURSE CODE: EBH 412
COURSE TITLE: POLLUTION
PROCESSES IN
TROPICAL ECOSYSTEMS

DATE: 15TH APRIL, 2019

1630 HRS

TIME: 1430 -

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in section A and any other THREE in section B

This paper consists of 2 printed pages. Please turn over.

SECTION A: ANSWER ALL QUESTIONS (25 marks)

1.	Explain the following terms: a) Ecosystem simplification b) Constant air mall whent	(2 marks)
	b) Secondary air pollutant	(2
	marks)	/3
	c) Artificial wetland	(2
_	marks)	
2.	Explain, with equations, the control of the follow air pollutants using hydrogen peroxide	ving industrial
	a) NO _x	(3 marks)
	b) H ₂ S	(3 marks)
3.	Briefly explain:	(5 marks)
	a) Oxygen sag	(5
	marks)	
	b) Eutrophication	(5 marks)
4.	With a specific example, explain the use of anin indicator of pollution in an ecosystem (3 marks)	•
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SECTION B: ANSWER ANY THREE QUESTIONS (45 marks)

- 5. a), With the aid of a diagram, explain greenhouse effect (7 marks).
 - b) Discuss the ways in which global warming is a threat to the tropical ecosystems (8 marks)
- 6. Discuss conventional wastewater treatment indicating how various pollutants are removed from municipal wastewater (**15 marks**)

7. Discuss the effects of acid precipit ecological ecosystems	tation on the soil and forest		
(15 marks)	15		
8. a) Define thermal pollution	(1 mark)		
b) Explain three ways by which the aquatic life(6 marks)	nermal pollution affects		
c) Discuss four sources of thermal ecosystem	pollution to aquatic		
	(8 marks)		
END			