

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 - Meru-Kenya Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

Website: info@must.ac.ke Email: info@must.ac.ke

University Examinations 2024/2025

FIRST YEAR FIRST SEMESTER EXAMINATION FOR THE CERTIFICATE IN AGRICULTURE

AAC 1402: ECOLOGY AND ENVIRONMENT MANAGEMENT

DATE: DECEMBER 2024 TIME: 1½ HOURS

INSTRUCTIONS: Answer question **one** and any other **two** questions

QUESTION ONE (30 MARKS)

a) Define the following terms.

	1)	Community	(2 marks)
	ii)	Individual	(2 marks)
	iii)	Ecology	(2 marks)
	iv)	Species diversity	(2 marks)
b)	Differentiate between species evenness and species richness?		(4marks)
c)	Give an example of a food chain.		(4marks)
d)	Explain two types of pollution.		(4 marks)
e)	Highlight the six importance of species diversity.		(6marks)
f)	Give four Ecological disasters that have occurred in the world		

QUESTION TWO (15 MARKS)

a) Discuss four environmental systems.	(8 marks)			
b) Explain two examples of ecosystems with a high species diversity?	(4 marks)			
c) State three ways of controlling air pollution.	(3 marks)			
QUESTION THREE (15 MARKS)				
a) State three causes of Global warming.	(3 marks)			
b) Give five effects of Global warming.	(5 marks)			
c) Give the stratification of the atmosphere?.				
d) State the meaning of ecological adaptation of an organism?	(2marks)			
QUESTION FOUR (15 MARKS)				
a) Discuss four population attributes	(8 marks)			
b) Explain seven ways of reducing water pollution	(7marks)			