

MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

FIRST YEAR, FIRST SEMESTER EXAMINATION FOR THE DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

AAE 2100: ECOLOGY, ENVIRONMENTAL PHYSIOLOGY AND MANAGEMENT

DATE: DECEMBER 2024 TIME: 2 HOURS

INSTRUCTIONS:

1. Answer Question ONE, and any other TWO

QUESTION ONE (30 MARKS)

a) Define the following terms:

i.	Species	(2 Marks)			
ii.	Energy pyramid	(2 Marks)			
b)	Given the following organisms, draw a food chain: Hare, Eagle, Grass, Hyena	(1 Marks)			
c)	Explain the importance of carrying out environmental audit	(5 Marks)			
d)	Soil ecosystem plays important role in dairy cattle production. Explain	(4 Marks)			
e)	Explain measures taken by Kenyan government to conserve natural resources	(4 Marks)			
f)	Explain 3 international efforts to mitigate climate change	(3 Marks)			
g)	Explain the effects of migratory insects in the ecosystem	(6 Marks)			
h)	Explain the factors that can influence successful mating of male dogs.	(3 Marks)			
QUESTION TWO (15 MARKS)					
a)	Explain the effects of forest fires to the forest ecosystems	(8 Marks)			
b)	Draw a water cycle	(7 marks)			





QUESTION THREE (15 MARKS)

a)	Explain how temperatures affects livestock production	(7 Marks)
b)	With help of a diagram, explain ecosystem	(8 Marks)

QUESTION FOUR (15 MARKS)

a)	Explain effects of climate change on life of wildlife	(10 Marks)
b)	Explain the importance of plants to animals life	(5 Marks)



