

FACULTY OF AGRICULTURE AND NATURAL RESOURCES

ACP206: ECOLOGY

END OF FIRST SEMESTER EXAMINATIONS

NOVEMBER/DECEMBER 2016

LECTURER: MR. T. A. MTAITA

DURATION: (3HRS)

INSTRUCTIONS

- 1. Do Not Write Your Name On The Answer Sheets.
- 2. Use Answer Sheets Provided.
- 3. Begin Your Answer For Each Question On A New Page.
- 4. Credit Is Given For Neat Presentation Of Answers.



Course code: ACP 206

Course name: Basic Ecology

Answer five questions only

Question One	
a) Why study Ecology?	[5]
b) No species is found everywhere on earth. Expound.	[5]
 c) Explain the complicating factors that can be encountered in studying population. 	a [10]
Question two	
a) What is the distinction between density dependent factors and densindependent factors?	ity [5]
b) Compare and contrast the diet breadth of predators and herbivores	[5]
c) Explain factors that change in a population.	[10]
Question three	
 a) Describe the concept of cleaner production and elaborate its main components. 	[10]
b) Explain the potential consequences of global warming and climate change.	[10]
Question four	
Provide the meaning and the major causes and effects of any five of the following ecological concepts:	ie
Desertification, Poverty and the environment,	[4] [4]

[4]

[4]

3. Environmental policy and legislation,

4. Emigration,

 Environmental impact of small scale mining, and Veld fires. 	[4] [4]
Question five	
b) Explain the following ecological concepts:	
i. Ecological pyramids,	[4]
ii. Biogeochemical cycles,	[4]
iii. Food chains and food webs	[4]
iv. Ecosystem components	[4]
v. Savannah	[4]
Question six	
a) What are the four major characteristics of a community?	[8]
b) Explain competition, predation, herbivory, and mutualism as interaction that occur among and within populations.	tions [12]