

## W1-34014

## JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY University Examinations 2017/2019

## **EXAMINATION FOR THE DEGREE OF BACHELOR**

## ALP 2407: LAND USE MODELLING 1

DAT	E: JAN	UAF	RY, 2018 T	TME: 2 HOURS
INST	ructi	ONS	: Answer Question ONE and Any Other TWO	O Questions.
1.	a) Defin	ne th	ne following terms using suitable examples	
	•	i)—	Land use	(2 marks)
	i	ii)	Land cover	(2 marks)
	i	<del>iii)-</del>	Land use change	(2 marks)
	i	iv)	Land use modeling	(2 marks)
	b) Discuss the major land use trends in Kenya today and expound on their			
			land use management. Cite relevant illustra	
	c) Disc	cuss	the factors hindering sustainable use o	of land using relevant
	examp	ies		(10 marks)
2.	a) "Deforestation is a big blow towards the achievement of the Sustamable			
	Development Goals (SDGs)." Discuss the assertion of this statement with			
	reieren	ice to	o any 5 SDGs and using relevant examples	(10 marks)
	b) Using suitable illustrations, discuss various governance issues that hamper			
	the con	serv	ration of forested areas	(10 marks)
3.	a) Defin	ne th	e term urban – rural linkages	(2 marks)
	b) "Urban- rural linkages as a result of various flows and interactions."			
	Discuss	this	statement citing relevant examples	(8 marks)
	c) Explain using relevant examples the impacts of urbanization on watersheds			
	and ger	nera	l hydrology	(10 marks)
4.	a) Disc	uss 1	ways through which land and related res	ources can be put into
_				(10 marks)
	b) Describe the direct and indirect drivers of land use and land cover			
	•		ng suitable examples	(10 marks)
	_		tanding the interactions between anthro	pogenic activities and
	natural resources is a critical element that needs to be understood by land use			
	planners." Discuss the relevance of this statement in land use management			

(20 marks)