

## JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY UNIVERSITY EXAMINATIONS 2012/2013

## 2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF ARTS IN SPATIAL PLANNING

(REGULAR)

COURSE CODE: PES 3215

COURSE TITLE: ELEMENTS AND PRINCIPLES OF BIOLOGICAL

**ENVIRONMENT** 

DATE: 15/8/2013 TIME: 9.00-11.00 AM

**DURATION: 2 HOURS** 

## INSTRUCTIONS

- 1. This paper consists of 5 Questions.
- 2. Answer Question 1 (Compulsory) and any other 2 questions.
- 3. Write your answers on the answer booklet provided.

## **Question One**

a)	Briefly discuss the <b>four</b> reservoirs of geochemical cycles?	(12 marks)
b)	With relevant examples, explain how man can affect geochemical cycles.	(4 marks)
c)	Discuss the aims of environmental taxes.	(4 marks)
d)	With relevant examples, discuss population interactions.	(10 marks)
Qı	nestion Two	
a)	Discuss the trophic levels in an ecosystem.	(10 marks)
b)	Discuss renewable energy.	(10 marks)
Question Three		
a)	Discuss the concept of carrying capacity in conservation and planning.	(10 marks)
b)	Discuss population structure and its use in planning.	(10 marks)
Qı	nestion Four	
a)	Discuss the role of ecological integrity in maintaining environmental quality.	(10 marks)
b)	Discuss any <b>five</b> environmental issues that environmental policies seek to address	
		(10 marks)
Question Five		
Dia	scuss thematic scopes of landscape ecology.	(20 marks)