

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2015/2016

OF BACHELOR OF ARTS IN URBAN AND REGIONAL PLANNING WITH INFORMATION TECHNOLOGY

CITY CAMPUS

PUR 122: ELEMENTS OF THE PHYSICAL AND BIOLOGICAL ENVIRONMENT

Date: 22nd April, 2016

Time: 9.00 - 11.00am

INSTRUCTIONS:

Answer Question ONE (Compulsory) and any other TWO Questions.

	1.			
,		 The earth is both an open and closed system. Discuss. 		
			(10 Marks)	
		 Differentiate between abiotic and biotic components of ar 	n ecosystem.	
			(10 Marks)	
		 The niche an organism occupies is the sum total of all the 		
		utilizes the resources of it's environment. Discuss this star	Discuss this statement based	
		on the following:		
		i. Competition.	(4 Marks)	
		ii. Fundamental niche.	(2 Marks)	
	_	Realized niche.	(4 Marks)	
	2.		(1036.1.)	
		Outline 5 levels of ecological study.	(10 Marks)	
		b. Distinguish between human activities modifying regional		
	2	those modifying global climate.	(10 Marks)	
	3.	Discuss 4 technologies which can be used to study physical geographics.		
	4	Using relevant examples, discuss the spatial science perspective	(20 Marks)	
	4.	physical environment based on:	or me	
		a. Characteristics of places.	(6 Marks)	
		b. Spatial distributions and spatial patterns.	(8 Marks)	
		c. Spatial interaction.	(6 Marks)	
	5.	or opinion interesting	(o marks)	
	a. Distinguish between temperate forest ecosystem and a tropical rain		pical rain	
			(10 Marks)	
		 Discuss the following biogeochemical tools 	` ′	
		 Element ratios. 	(3 Marks)	
		ii. Mass balance.	(3 Marks)	
		iii. Element cycling.	(4 Marks)	
Write brief notes on the following types of energy:- Radiation			nergy,	
		Chemical Energy, Potential Energy, Thermal Energy	(20 Marks)	