BOWEN UNIVERSITY, IWO

DEPARTMENT OF BIOLOGICAL SCIENCES

2010/2011 FIRST SEMESTER EXAMINATION **BLY 121: INTRODUCTORY ECOLOGY**

Answer questions ONE and any two others. Answers should be well-illustrated where appropriate. Time: 2hrs 20 mins

1.	(a)	Give a concis (i) Habita (iii) Ecosy	\"/	Population	terms:	
	(b)	The following data were obtained from studies in an ecosystem of 5km² in area				
	To To	Organism	Population size (2005)	Population size (2006)	Population (2007)	
		Goat	250	200	270	
		Maize	1000	1500	2500	
		Man	50	-	75	
	(c)	(ii) If the popula (iii) If the I maize Briefly explain (i) Polluta (ii) Acid p (iii) Eutrop	ate the population growth of population growth of population size in 2006? and area of the ecosin 2007. The following terms and recipitation hication	man from 2005 to	2006 was 10	, what was the
			nediation station			(30 Marks)
2.	Briefly comment on how the following factors may affect the distribution of living organisms:					
	(a)	Temperature				
	(b)	Moisture				
	(c)	Parasitism				
	(d)	Competition (20 Marks)				
3.	A comeagle, (a) (b)	nmunity comprises of: antelope, butterfly, cassava, grasshoppers, mango, lizard, e, snake and man Construct the food web of the ecosystem Identify two different trophic levels that man occupies. (20 Marks)				
4.	Discus	cuss in detail water pollution and ways of prevention				(20 Marks)
5.	(a) (b)	Draw the nitrog State three pro	gen cycle oblems associated v	vith pyramids of nu	imbers	(20 Marks)