BOWEN UNIVERSITY, IWO

COLLEGE OF AGRICULTURE ENGINEERING AND SCIENCE PURE AND APPLIED BIOLOGY PROGRAMME 2021/2022 FIRST SEMESTER EXAMINATION\

PAB 303: GENERAL ECOLOGY

Ans	wer qu	estions	one and any two others.	Time allowed: 2 hour	s 20 minutes
1.	(a)	During a capture-recapture effort, a total of 164 catfishes was caught, marked and released back into the reservoir; a few days later, 18 out of the 258 catfishes caught were marked.			
		(i)	Estimate the total population siz	e of catfish in the reservoir.	(7 marks)
		(ii)	Enumerate four critical assump above valid.	ions that will make the estimate	e in 1(a)(i) (8 marks)
	(b)	Briefly discuss the various causes of desertification resulting from degradation of			
	v :getation in the natural environment.				(10 marks)
	(c)	Frovide a concise list of five (5) apparatus required for study of population			
		parameters in a grassland habitat.			(5 marks)
2.	(a)	Discuss briefly, any ten levels or scales of ecological studies.			(10 marks)
	(b)	Define the terms Population and Density.			(3 marks)
	(c)	List the common and scientific names of four bird species and three primate species endemic to Nigeria. (7 marks)			
3.	Desc	scribe the process of succession that occurs on a rock surface from initial stanmunity.			ge to the climax (20 marks)
4.	Write short notes on the following:				
	(a)	Diffe	rent forms of succession that may	occur in vegetation	(4 marks)
	(b)	Soil conditions as a limiting factor affecting vegetation development.		(4 marks)	
	()			(12 marks)	
	(c)	Types	s of quadrat used in vegetation ana	lyses	(4 marks)
5.	Write an essay on the determination of relative density of animals			(20 marks)	