## BOWEN UNIVERSITY, IWO COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE PURE AND APPLIED BIOLOGY PROGRAMME 2022/2023 FIRST SEMESTER EXAMINATION PAB 303: GENERAL ECOLOGY

Answer question **ONE** and any two others. *Time:* 2 h 20 min.

Ans	wer qu	estion <b>ONE</b> and any two others.	
1,	(a)	released back into the reservoir; a few days later, 24 out of the 320 catrisnes caught were marked.	
		(i) Estimate the total population size of catfish in the reservoir.	(7 marks)
		(ii) Enumerate <b>four</b> critical assumptions that will make the estimate i above valid.	n 1(a)(i) (8 marks)
	(b)	Briefly discuss the various causes of desertification resulting from degrace vegetation in the natural environment.	(10 marks)
	(c)	Provide a concise list of <b>five</b> life forms according to Christen Raunkiaer' classification of life forms in plants.	s (1934) (5 marks)
2.	(a)	List the common and scientific names of four bird species and three endemic to Nigeria.	e primate specie (7 marks)
	(b)	Discuss the term "Survivorship curves".	(13 marks)
3.	Desc	cribe the process of succession in a water body from initial stage to the climax community.  (20 marks)	
4.	Write (a) (b) (c)	Types of climaxes in a plant community.  Light conditions as a limiting factor affecting vegetation development.  Types of quadrats used in vegetation analyses of a plant community.	(10 marks) (6 marks) (4 marks)
5.	(a)	Define the terms Population and Density.	(3 marks)
	(b)	Enumerate four primary parameters affecting population size.	(2 marks)
	(b)	Write an essay on determination of relative density of wildlife.	(15 marks)